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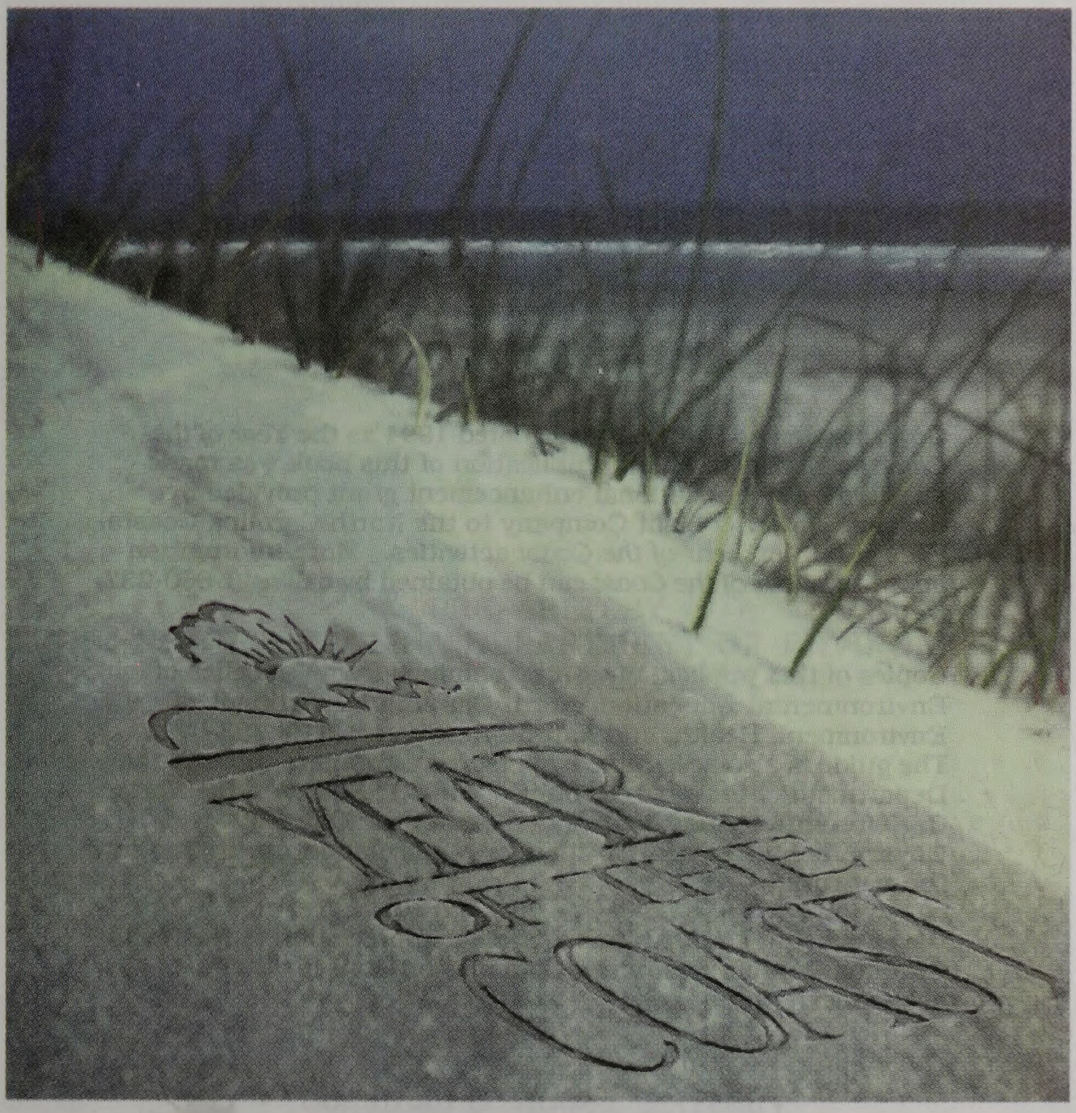
Teacher's Guide
to

Environmental Education Programs and Resources

Offered by the
North Carolina Department of Environment,
Health, and Natural Resources

1994 Year of the Coast edition



Prepared by

Office of Environmental Education

Jonathan B. Howes, Secretary
James B. Hunt, Jr., Governor

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Copies of this publication can be obtained from the Office of Environmental Education, North Carolina Department of Environment, Health, and Natural Resources, (919) 733-0711. The guide is also accessible by personal computers through the Department of Cultural Resources' Bulletin Board on the North Carolina Information Network. Contact the Office of Environmental Education for more information on linking into the network.

Cover design: Lauri Arntsen. Special appreciation to the North Carolina Wildlife Resources Commission staff for their assistance.

CP&L

YEAR OF THE COAST

TEACHER'S GUIDE TO ENVIRONMENTAL EDUCATION PROGRAMS AND RESOURCES OFFERED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

1994 Year of the Coast edition

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THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES

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Overview

The Teacher's Guide to Environmental Education Programs and Resources Offered by the North Carolina Department of Environment, Health, and Natural Resources has been published as a service to and source of information for the educators of North Carolina whose efforts in teaching and molding North Carolina's youth are held in highest regard. The guide was compiled and written to consolidate the Departmental environmental education programs available for educators to use in enhancing their teaching inside and outside of the classroom. This guide is limited in focus to environmental programs that promote interactive learning or resources that can be used to facilitate hands-on learning. It does not include fact sheets and other sources of environmental information.

The guide is organized into four main categories:

* **Environmental Education Programs and Activities That Come To You** does not require the classroom or group to leave the individual school grounds. Interactive Programs are administered by representatives from the various Divisions within the Department of Environment, Health, and Natural Resources. Other activities may be in the form of contests or competitions in which a classroom or school may participate.

* **Environmental Education Field Trips and Site Visits** requires the classroom or group to travel to the state-operated facility or site location of the sponsoring division or agency.

* **Educational Opportunities For Teachers** provides a listing of workshops available to educators of all backgrounds. Many of these workshops offer certificate renewal, continuing education, or graduate credit.

* **Environmental Education Support Materials** includes resources that can be used to facilitate hands-on learning in the classroom.

Each entry in the guide contains the following format: a summary of the type of program, audience, teacher accreditation availability, location, when it is offered, cost information, and a contact for further information. The guide includes a matrix providing a graphical representation of the audience level, method of delivery, and the sponsoring agency associated with each program listing.

The appendix of the guide contains a listing of addresses and telephone numbers of the Areas of the North Carolina Association of Soil and Water Conservation Districts, Soil and Water Districts, Forest Service Districts, Land Quality Regions, and State Parks and Recreation Areas. The list of private environmental education facilities on page 69 was provided to EHNR by the Coastal Federation as examples of other environmental education resources available in the coastal region. The list is not by any means inclusive, and was added for this special coastal edition of the guide.

We welcome your questions and comments and encourage you to contact the appropriate Division or Agency for more information on the programs listed in the guide. The Office of Environmental Education (919) 733-0711 welcomes any comments on the organization of the guide for improving the effectiveness of future editions.

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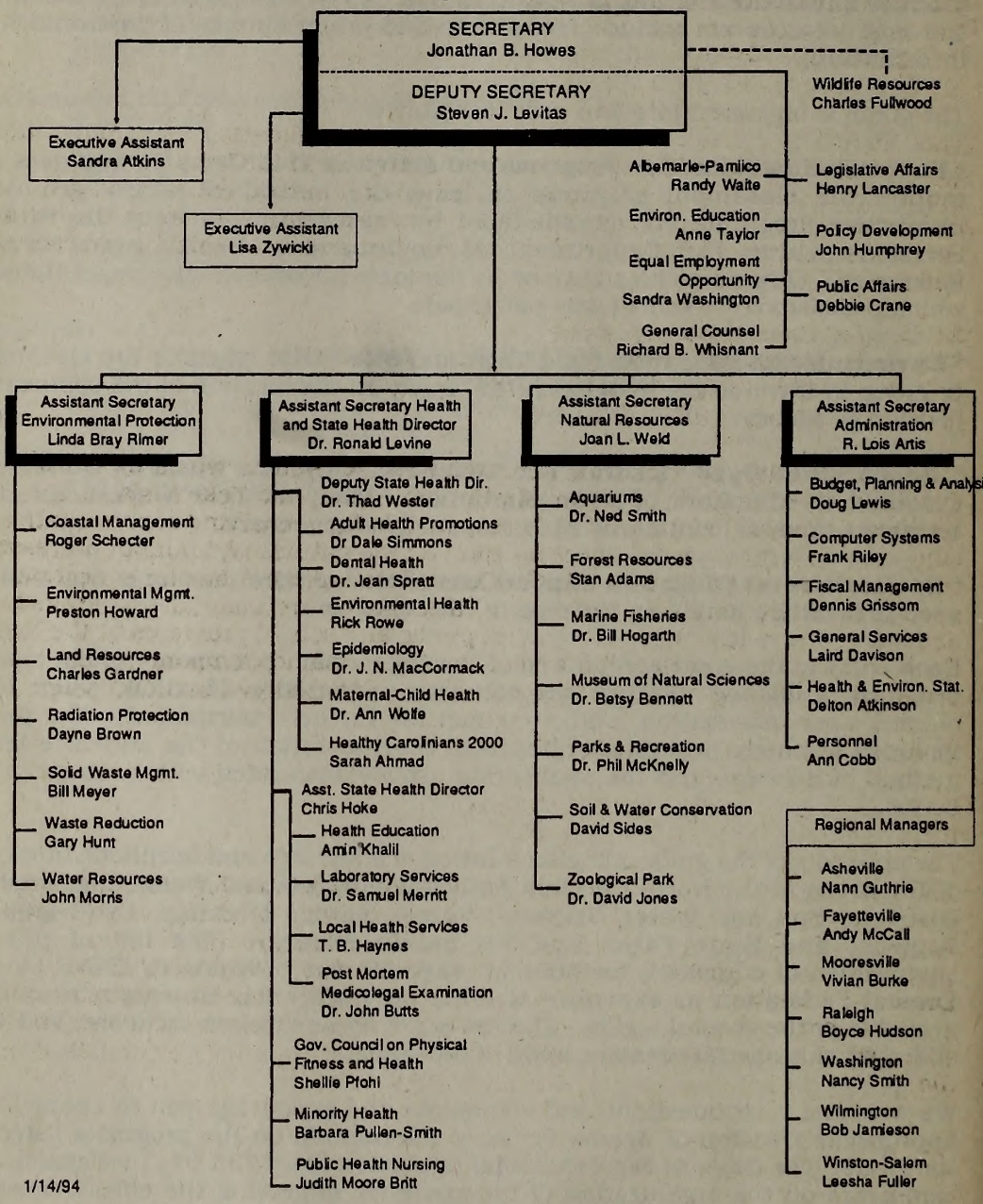
Department of Environment, Health, & Natural Resources

Organization Chart



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Description of Agencies

Department of Environment, Health, and Natural Resources

(Provided below are descriptions of the environmental education activities of the agencies within the Department of Environment, Health, and Natural Resources. This is not a complete description of all the activities or responsibilities of the agencies, nor does it include every agency within the Department.)

Office of Environmental Education
111 Hillsborough Street
P.O. Box 27687, Raleigh, NC 27611-7687
(919) 733-0711; FAX (919) 733-1616

The Office of Environmental Education serves a coordinating role among the various state and federal agencies, citizens groups, and the business and industrial community in the promotion of environmental education and natural resource stewardship. The Office acts as a clearinghouse and referral center for environmental education information and materials for educators and the general public.

Division of Coastal Management
225 North McDowell Street
P.O. Box 27687, Raleigh, NC 27611-7687
(919) 733-2293; FAX (919) 733-1495

Through the National Estuarine Research Reserve System, which includes Currituck Banks, Rachel Carson, Masonboro Island, and Zeke's Island, the Division of Coastal Management is responsible for preserving representative estuarine sites for research and education on the natural and human processes that affect the coast. The Division of Coastal Management has an education specialist in Beaufort who performs a variety of environmental educational activities. Currently, there are general public and school programs at the Rachel Carson Component in Beaufort and at the Zeke's Island Component near Wilmington. During 1992, 101 programs were administered to 3,050 people.

Division of Environmental Health
1330 St. Mary's Street
P.O. Box 27687, Raleigh, NC 27611-7687
(919) 715-3204; FAX (919) 715-3242

The Division regulates and provides technical assistance for environmental conditions directly affecting human health, including drinking water supplies, restaurant sanitation, pest control, milk and shellfish sanitation, lead poisoning, septic systems, and swimming pool safety. Employees of the Division of Environmental Health and county health departments are available to speak to school groups on these subjects. For more information on speakers, potential resources, field trips ideas, or other educational opportunities, contact the Public Information Officer within the Division.

Division of Forest Resources
512 North Salisbury Street
P.O. Box 27687, Raleigh, NC 27611-7687
(919)733-2162; FAX (919) 733-2835

Through the Educational State Forest System, the Division exhibits a proactive role in environmental education. The Division maintains six educational state forests in North Carolina: Holmes, Tuttle, and Rendezvous Mountain

Educational State Forests located in the mountain region; Clemmons and Jordan Lake Educational State Forests in the piedmont region; and Turnbull Creek Educational State Forest in the coastal plain. Since its creation in 1973, the purpose of the Educational State Forest System has been to help people understand the value of forest resources for recreation, timber production, wildlife habitat, soil and water conservation, and aesthetics. The educational forests maintain two approaches to environmental education: self-guided interpretive trails and formal education classes.

Division of Land Resources
512 North Salisbury Street
P.O. Box 27687, Raleigh, NC 27611-7687
(919) 733-3833; FAX (919) 733-4407

The Division of Land Resources employs an Education Coordinator who assists in the planning and implementation of educational projects, printed materials, audio visuals, training and information workshops, and exhibits for the North Carolina Geological (NCGS) and Geodetic Surveys, the North Carolina Mining Program, and the North Carolina Dam Safety Program.

Upon request and time permitting, the North Carolina Geological Survey staff makes presentations to individual classrooms and to small groups of students. In addition, the North Carolina Geologic Survey sponsors a small monetary grants program for graduate students in the geophysical disciplines. The survey is a major participant in and donator of materials to the North Carolina Science Teachers' annual meeting.

The North Carolina Sediment/Pollution Control Program has an Education Specialist who provides information on sedimentation issues to the general public through service announcements and mailers. The Sediment Program also creates environmental education programs aimed at educating public school children through curriculum development and practical experience.

The North Carolina Mining Commission helps sponsor the University of North Carolina Mathematics and Science Education Network's Workshops for K-12 teachers at the Network's 10 education centers by contributing $10,000 annually. Additionally, the Commission also helps sponsor the annual Outstanding Earth Science Teacher Award competition conducted by the Education and Industry Committee for Earth Science in North Carolina by contributing $700.

Division of Parks and Recreation
512 North Salisbury Street
P.O. Box 27687, Raleigh, NC 27611-7687
(919) 733-4181; FAX (919) 715-3085

The North Carolina State Parks System exists for the enjoyment, education, health, and inspiration of North Carolina's citizens and visitors. The educational purpose of the state parks system is to encourage people to conserve and protect representative examples of the natural beauty, ecological features, and recreational resources of statewide significance. The Division of Parks and Recreation maintains 32 state parks with trained educators and naturalists on staff, allowing a multitude of hands-on environmental education opportunities to occur. The primary emphases of environmental education within the Parks System are the development of Environmental Education Learning Experiences (EELE) for each state park and experiential programs for all park visitors. Each EELE contains pre-park visit activities, on-site activities and post-park visit activities for park visitor groups.

Division of Soil and Water Conservation
512 North Salisbury Street
P.O. Box 27687, Raleigh, NC 27611-7687
(919) 733-2302; FAX (919) 715-3559

The Division conducts programs to conserve the state's soil and water resources. Environmental education is primarily dependent upon each of the 94 local conservation districts. The North Carolina Association of Soil and Water Conservation Districts, a conglomeration of the 94 local districts, sponsors an annual program of contests and awards emphasizing various soil and water conservation issues. An estimated 250,000 children in North Carolina participate in the annual contest and awards program. Through staff support, assistance, and encouragement given to the Association of Soil and Water Conservation Districts, the Division is indirectly involved in environmental educational activities.

Office of Waste Reduction
3825 Barrett Drive
Raleigh, NC 27609-7221
(919) 571-4100; FAX (919) 571-4135

The Office of Waste Reduction (OWR) provides free, non-regulatory technical assistance and education on methods to eliminate, reduce, reuse, or recycle wastes before they become pollutants or require disposal. Technical assistance is offered on ways to reduce air emissions, wastewater pollutants, hazardous waste, and solid waste. Some financial assistance is available from OWR to business, industry, and local government for waste reduction activities. OWR presents workshops and training sessions throughout the year on a variety of topics including source reduction, buying recycled products, commercial and industrial waste reduction, and others. OWR offers the Recycling Coordinator's Training Course which explores the basics of recycling, collection, processing, and marketing materials as well as policy and education strategies. The Office also has numerous publications on solid waste and multi-media waste appropriate for school-age and adult audiences. For more information about workshops or a list of publications, contact the Office of Waste Reduction.

Division of Water Resources
512 North Salisbury Street
P.O. Box 27687, Raleigh, NC 27611-7687
(919) 733-4064; FAX (919) 733-3558

The Division conducts programs for river basin management, water supply, water conservation, navigation, stream clearance, flood control, beach protection, aquatic weed control, hydroelectric power, and recreational uses of water. Having been named the Project WET state coordinator, the Division is developing hands-on activities on water issues. Contact the Division on the availability of these programs and resources. In addition to the development of Project WET activities, key environmental education programs within the Division include the highly effective Stream Watch Program and community outreach.

Division of Conservation Education (North Carolina Wildlife Resources Commission)
512 North Salisbury Street
Raleigh, NC 27604-1188
(919) 733-7133; FAX (919) 733-7083

The mission of the North Carolina Wildlife Resources Commission's Division of Conservation Education is to plan, develop, produce, and deliver programs and products which impart knowledge and understanding relative to the

interrelationships that connect all parts of the environment. The Division then helps the public transform this knowledge and understanding, through the development of appropriate skills and attitudes, into effective actions to conserve the environment. Because wildlife is such a sensitive barometer for the quality of the environment and because of the public's love for and interest in wildlife, this particular resource provides the natural motivation to further broaden environmental goals. Division programs are organized into four areas: N.C. WILD, N.C. CATCH, Wildlife in North Carolina magazine, and The WILD Store.

North Carolina Aquariums
417 North Blount Street
Raleigh, NC 27601-1009
(919) 733-2290; FAX (919) 733-4271

The mission of the three state aquariums along the North Carolina coast is to increase the public's awareness, understanding, and appreciation of North Carolina's aquatic resources and environments. The aquariums are located at Pine Knoll Shores near Morehead City, on Roanoke Island near Manteo, and at Fort Fisher near Wilmington. Many educational opportunities are available at each of the aquariums including exhibits, field experiences, lectures, films, and school programs.

North Carolina State Museum of Natural Sciences
102 North Salisbury Street
P.O. Box 29555, Raleigh, NC 27626-9555
(919) 733-7450; FAX (919) 733-1573

The purpose of the North Carolina State Museum of Natural Sciences is to enhance the public's understanding and appreciation of the natural environment in ways that emphasize the bio-diversity of North Carolina and the southeastern United States as it relates to the natural world. Environmental education of the general public, educators, and students is accomplished through workshops, outreach programs, exhibit hall presentations, and special programs.

North Carolina Zoological Park
4401 Zoo Parkway
P.O. Box 73, Asheboro, NC 27203-9416
(910) 879-7700; FAX (910) 879-2891

The North Carolina Zoological Park uses its more than 800 animals and 15,000 plants to give visitors a sense of appreciation and awe for the world around them so that visitors can better understand ecological systems and translate such understanding into environmentally sound actions. Currently covering 300 acres, the Zoo is in the midst of a major expansion that will effectively double its size. Through its natural habitats for African and North American species, the Zoo fulfills its missions in the areas of conservation, education, recreation, and research. Environmental education is available to the general public, educators, and students. Services include: workshops, tours, special events, hands-on instructional material, and interaction on Zoo grounds.

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11	Big Sweep	x								x	x						x	x								x				
11, 43	Classroom Videos									x		x					x											x		
29	Curiosity Classes		x	x	x	x									x													x		
30	Discovery Fun		x					x	x						x													x		
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17	Field Trips of the NC National Estuarine Research Reserve			X	X	X	X		X							X			X										
31	Girls' Science Club				X				X						X													X	
14	Girl Scout Patch								X						X														X
28	An Hour at the Aquarium			X	X	X	X		X						X												X		
39	Investigating Your Environment								X	X							X			X									
32	Junior Curators				X	X		X							X			X										X	
26	Natural History Studies	X		X	X	X	X		X						X	X											X		
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32	NC Habitat Watch	X							X						X			X										X	
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47	N.C. WILD (Wildlife in Learning Design)								X	X							X												X
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5	Outreach Programs-Division of Parks and Recreation			X	X	X	X		X						X						X								
10	Outreach Programs-NC Aquariums-Pine Knoll Shores			X	X	X	X		X						X												X		
10	Outreach Programs-NC Aquariums-Roanoke Island			X	X	X	X		X						X												X		
21	Parks and Recreation Area Education Programs			X	X	X									X						X								
39	Project Estuary and Sound Ideas Workshop								X	X						X	X		X										
40	Project Learning Tree								X	X							X			X									
54	Resource Boxes								X	X	X																X		
54	Rock Kits								X	X	X										X								
33	Saturday Storytime		X	X				X							X												X		
25	School Field Trips-Fort Fisher			X	X	X										X										X			
27	School Field Trips-Pine Knoll Shores			X	X	X	X		X							X										X			
29	School Field Trips-Roanoke Island				X	X	X		X							X										X			
4	Sedimentation/Erosion Control Essay Contest					X								X							X								
35	Smart Carts	X													X														X
7	Soil and Water Conservation Essay Contest				X				X					X										X					

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53	Tree Trunks								x	x	x	x									x									
42	Teacher Training								x	x							x										x			
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ENVIRONMENTAL EDUCATION PROGRAMS AND ACTIVITIES THAT COME TO YOU

NORTH CAROLINA NATIONAL ESTUARINE RESEARCH RESERVE CLASSROOM PROGRAMS—DIVISION OF COASTAL MANAGEMENT

Type of Program: Classroom programs are available for those unable to visit the estuary. Topics include: *So Just What is an Estuary?, Who Lives in an Estuary?, Adapting to Constant Change, Food Webs in the Estuary, The Critical Nursery Link, The Watershed Connection, Pollution and Other Problems,* and *Birds of the Estuary.* Various topics may also be combined. The 45-minute programs consist of lecture and slides, and offer active involvement through games, experiments, questions, and discussion.

Audience: Kindergarten-grade 12

Teacher Accreditation: N/A

Location: Statewide

When: November 1-March 31

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
North Carolina Division of Coastal Management
Education Specialist
P.O. Box 1040
Beaufort, NC 28516-1040
(919) 728-2170

ENVIRONMENTAL HEALTH POSTER CONTEST DIVISION OF ENVIRONMENTAL HEALTH

Type of Program: Each year the environmental health section of the North Carolina Public Health Association sponsors a poster contest on issues relating to environmental health. A different theme is selected each year and posters are judged on the school, county, district, and state levels.

Audience: Three separate annual contests are held for grades 4, 5, and 6.

Teacher Accreditation: N/A

Location: N/A

When: District contests may be held any time during the school year before June 1.

Cost: Free. First place winners at the state level receive a $100 savings bond and second place winners receive a $50 savings bond.

Contact: North Carolina Department of Environment, Health, and Natural Resources
Public Information Officer
Division of Environmental Health
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 715-3204

OUTREACH—DIVISION OF LAND RESOURCES

Type of Program: An environmental educator within the Land Quality Section of the Division of Land Resources is available to perform activities with schools and other interested groups. Activities range from a demonstration with an "enviroscape model," illustrating sedimentation in water, to a brief lecture followed by group activities.

Audience: Kindergarten-adult

Teacher Accreditation: N/A

Location: Statewide. The education specialist usually visits one school per week in the Wake County area. However, the specialist may be available for visits in other areas. Details are available upon request.

When: Year-round

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
Division of Land Resources—Land Quality Section
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-4574

SEDIMENTATION/EROSION CONTROL ESSAY CONTEST
DIVISION OF LAND RESOURCES

Type of Program: The essay contest provides an opportunity for high school students to enhance their writing abilities in a science-based writing experience on the subject of water quality, the control of soil erosion, and the sedimentation process caused by land-disturbing activities. The essay must not exceed four double-spaced pages and must be typewritten or legibly written and meet other criteria listed in the "Muddy Water" brochure available from the Land Quality Section of the Division of Land Resources. Contests are conducted at the regional and state levels. The appendix of this publication lists the addresses and phone numbers of the regional offices.

Audience: High school students, grades 9-12

Teacher Accreditation: N/A

Location: N/A

When: Deadlines vary each year. The regional contest is usually held in December and the statewide contest is held in January or February. See the "Muddy Water" brochure or contact the Division of Land Resources' Land Quality Section for more information.

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
Division of Land Resources—Land Quality Section
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-4574

OUTREACH PROGRAMS—DIVISION OF PARKS AND RECREATION

Type of Program: All year, Division of Parks and Recreation staff are available to administer outreach programs throughout North Carolina for those unable to visit in person. Programs are complemented with hands-on materials. Programs are tailored to each group's interest and education level.

Audience: Kindergarten-adult

Teacher Accreditation: N/A

Location: Within a 50-mile radius of any state park or recreation area

When: Year-round

Cost: Free

Contact: Schedule at least two weeks in advance. The appendix of this publication includes the addresses and phone numbers of individual state parks and recreation areas with environmental education programs.

North Carolina Department of Environment, Health, and Natural Resources
Division of Parks and Recreation
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-4181

ENVIROTHON—DIVISION OF SOIL AND WATER CONSERVATION

Type of Program: Envirothon is a contest for teams of five high school students competing in natural resource knowledge and ecology. The competition involves a written test completed by the teams. Winners advance to the state level and then proceed to the national level. The Division of Soil and Water Conservation provides resource packets to assist teams in preparing for the competition and coordinates the state level contest. An entire class or group may participate in studying the resources, but only five members can be on a team. A class or school may form more than one team.

Audience: High school students in grades 9-12 from the same school

Teacher Accreditation: N/A

Location: Area contests are held within the eight Areas of North Carolina Association of Soil and Water Conservation Districts that divide North Carolina, the state competition is held in Burlington, and the national contest location varies each year across the United States.

When: Area contests are held any time before April. The state competition is held on a Saturday in April, 10:00 a.m.-12:30 p.m.

Cost: $20 registration fee per team. Local Soil and Water Conservation Districts are encouraged to sponsor teams.

Contact: For more information or a free copy of the Contest Handbook, contact your local Soil and Water Conservation District or contact the Division of Soil and Water Conservation. The appendix of this publication provides a listing of the eight Areas of the North Carolina Association of Soil and Water Conservation Districts, and the local Soil and Water Conservation Districts in North Carolina.

North Carolina Department of Environment, Health, and Natural Resources
Division of Soil and Water Conservation
Envirothon Program Coordinator
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 571-4700

SOIL AND WATER CONSERVATION ESSAY CONTEST
DIVISION OF SOIL AND WATER CONSERVATION

Type of Program: Sponsored by the Division of Soil and Water Conservation, this essay contest provides an opportunity for school children to enhance their writing abilities while expanding their knowledge of soil and water conservation issues. The essay is limited to 300-500 words and must meet certain specifications as described in the free Contest Handbook available from the Division. Contests are conducted on the district, area, and state levels. The appendix of this publication includes a list of the Areas of North Carolina Association of Soil and Water Conservation Districts and the North Carolina Soil and Water Conservation Districts.

Audience: Grade 6

Teacher Accreditation: N/A

Location: N/A

When: District contests may be held any time during the school year before March 1. Area winners are selected before April 1 and the state contest is held by May 15.

Cost: Free. Monetary prizes are awarded at the state level. First place winners receive $100 and second place winners receive $50.

Contact: For more information or a free copy of the Contest Handbook, contact your local Soil and Water Conservation District listed in the appendix of this publication or contact the Division of Soil and Water Conservation.

North Carolina Department of Environment, Health, and Natural Resources
Division of Soil and Water Conservation
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-2302

SOIL AND WATER CONSERVATION POSTER CONTEST
DIVISION OF SOIL AND WATER CONSERVATION

Type of Program: This poster contest is an artistic exhibition for middle school students relating to soil and water conservation issues that include agricultural, urban, or local conservation ideas. Posters must meet certain specifications as described in the free Contest Handbook available from the Division of Soil and Water Conservation. Contests are conducted on the district, area, and state levels. The appendix of this publication includes a list of the Areas of the North Carolina Association of Soil and Water Conservation

Districts and the North Carolina Soil and Water Conservation Districts.

Audience: Three separate annual contests are held for grades 4, 5, and 6.

Teacher Accreditation: N/A

Location: N/A

When: District contests may be held any time during the school year before March 1. Area winners are selected before April 1 and the state contest is held by May 15.

Cost: Free. Monetary prizes are awarded on the state level. First place winners receive $100 and second place winners receive $50.

Contact: For more information or a free copy of the Contest Handbook, contact your local Soil and Water Conservation District listed in the appendix of this publication or contact the Division of Soil and Water Conservation.

North Carolina Department of Environment, Health, and Natural Resources
Division of Soil and Water Conservation
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-2302

SOIL AND WATER CONSERVATION PUBLIC SPEAKING CONTEST
DIVISION OF SOIL AND WATER CONSERVATION

Type of Program: The public speaking contest provides an opportunity for students to sharpen their public speaking skills while expanding their understanding of soil and water conservation issues. Speeches are limited to 4-6 minutes and must meet certain specifications as described in the free Contest Handbook available from the Division of Soil and Water Conservation. Contests are conducted on the district, area, and state levels. The appendix of this publication includes a list of the Areas of North Carolina Association of Soil and Water Conservation Districts and the North Carolina Soil and Water Conservation Districts.

Audience: Grades 7 and 8

Teacher Accreditation: N/A

Location: N/A

When: District contests may be held any time during the school year before March 1. Area winners are selected before April 1 and the state contest is held by May 15.

Cost: Free. Monetary prizes are awarded on the state level. First place winners receive $100 and second place winners receive $50.

Contact: For more information or a free copy of the Contest Handbook, contact your local Soil and Water Conservation District listed in the appendix of this publication or contact the Division of Soil and Water Conservation.

North Carolina Department of Environment, Health, and Natural Resources
Division of Soil and Water Conservation
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-2302

STREAM WATCH—DIVISION OF WATER RESOURCES

Type of Program: Stream Watch is a volunteer program made up of individuals or groups wanting to adopt a North Carolina stream. Protection of a watershed can take many forms depending on the interest of the group. Examples include: stream inventories, outings, monitoring, involvement in the permit process, working with local governments and businesses, stream improvement, and education. Groups or individuals interested in beginning a Stream Watch Program should contact the Stream Watch Coordinator within the Division of Water Resources. The Coordinator will assist in setting up a program based on specific needs. Stream Watch members receive free educational materials, a quarterly newsletter, and the counsel of the Stream Watch Coordinator.

Audience: General public, school groups (K-12), communities, and neighborhood organizations. Stream Watch groups consist of individuals or groups. There are approximately 200 groups established in North Carolina.

Teacher Accreditation: N/A

Location: Statewide

When: N/A

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
Stream Watch Coordinator
Division of Water Resources
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-4064

OUTREACH PROGRAMS—NORTH CAROLINA AQUARIUM PINE KNOLL SHORES

Type of Program: The Aquarium Special Activities Instructor is available to administer outreach programs throughout North Carolina for those unable to visit the Aquarium in person. Most programs are augmented by live animals demonstrations and include the following topics: *Sea Turtles, Alligators, The Living Fossil, Spiny Skins, No Fins, Shell Dwellers,* and *Gumbo,* a combination program.

Audience: Kindergarten-adult

Teacher Accreditation: N/A

Location: Statewide

When: Year-round

Cost: The base fee is $25 for groups of thirty or less plus a travel fee of $.20 per mile, round-trip. Some distances may require overnight lodging adding an additional charge to the overall cost.

Contact: Schedule at least two weeks in advance through the Special Activities Coordinator.

North Carolina Department of Environment, Health, and Natural Resources
Education Department
North Carolina Aquarium
Pine Knoll Shores
P.O. Box 580
Atlantic Beach, NC 28512-0580
(919) 247-4004

OUTREACH PROGRAMS—NORTH CAROLINA AQUARIUM—ROANOKE ISLAND

Type of Program: During the fall and winter, the Aquarium staff is available for outreach programs throughout North Carolina for those unable to visit the Aquarium in person. Program topics are varied and can be designed to suit a group's interest(s).

Audience: Kindergarten-adult

Teacher Accreditation: N/A

Location: Statewide

When: Available October through March. Subject to staff availability.

Cost: Information is available upon request.

Contact: North Carolina Department of Environment, Health, and Natural Resources
North Carolina Aquarium on Roanoke Island
Airport Road
P.O. Box 967
Manteo, NC 27954-0967
(919) 473-3494

BIG SWEEP—NORTH CAROLINA BIG SWEEP

Type of Program: Big Sweep is a partnership involving state and federal agencies, businesses, civic organizations, nonprofit organizations, and individuals. Its mission is to educate adults and children and to motivate behavioral change through awareness of water quality. The program encourages stewardship of coastal and inland waters through the development of educational materials, the facilitation of educator workshops, and the sponsoring of an annual cleanup event of North Carolina's rivers, lakes, beaches and streams.

Audience: General public

Teacher Accreditation: N/A

Location: Statewide

When: The First Citizens Bank Big Sweep cleanup is held the third Saturday in September. Educational materials are available year-round. Call for information about educator workshops.

Cost: Educator booklets are available to North Carolina educators for $2 each (to cover postage). Call for information.

Contact: N.C. Big Sweep
P.O. Box 550
Raleigh, NC 27602-0550
(919) 856-6686
1-800-27-SWEEP

CLASSROOM VIDEOS
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: In conjunction with the North Carolina Department of Public Instruction and the N.C. Science and Mathematics Alliance, the Museum has produced two one-hour satellite workshops on Using the School Grounds as a Resource. Two titles are available on 1/2" VHS videocassette. *Creating Miniponds at Your School Site* contains tips on creating miniponds on your school grounds and studio demonstrations of suggested native aquatic plants that can be used to help maintain a balanced pond environment. *Creating Butterfly Gardens* provides a mixture of how-to tips and highlights of the plants and animals that can be found

in a butterfly garden. Practical tips on design considerations, plant selection and hints for successful gardening are shared through examples from schools across North Carolina. Suggestions are also given on how to raise butterflies and moths in the classroom and on strategies for using a butterfly garden in teaching various subjects.

Audience: Kindergarten-grade 12 science teachers

Teacher Accreditation: N/A

Location: Statewide

When: Year-round

Cost: $17 per tape plus 6% North Carolina sales tax. Allow 4-6 weeks for delivery.

Contact: North Carolina Department of Environment, Health, and Natural Resources
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

OUTREACH PROGRAMS—NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: State Museum of Natural Sciences representatives take slide shows, specimens, instructional materials, and living plants and animals into communities, club meetings, and festivals. More information is available upon request.

Audience: General public

Teacher Accreditation: N/A

Location: Statewide

When: Year-round

Cost: $60 for an one-hour program and $120 for a two-hour program

Contact: North Carolina Department of Environment, Health, and Natural Resources
Director of Public Programs
North Carolina State Museum of Natural Sciences
P.O. Box 27955
Raleigh, NC 27626-7955
(919) 733-7450

USING THE OUTDOORS TO TEACH EXPERIENTIAL SCIENCE (UTOTES)
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: Using the Outdoors to Teach Experiential Science (UTOTES), sponsored by the North Carolina Science and Mathematics Alliance, North Carolina Department of Public Instruction, and the North Carolina State Museum of Natural Sciences, is designed for improving science education. Up to 10 elementary schools across the state are selected annually. Up to 24 teachers from each school receive one year of intensive training on using their school grounds to teach hands-on science and other subject areas. Emphasis is placed on enhancing the school grounds as a wildlife habitat through encouraging plantings of native wildflowers, shrubs, and trees, providing cover for birds and small animals, and returning selected mowed areas to meadows and natural sites.

Audience: Kindergarten-grade 5 teachers

Teacher Accreditation: Certificate renewal credits are available.

Location: At each individual school site

When: Information on the application deadline is available upon request.

Cost: Free, but may change depending on grant support

Contact: North Carolina Department of Environment, Health, and Natural Resources
Director of School Programs
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

WAKE COUNTY SCHOOL VISITATION PROGRAMS
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: The Wake County Natural Science Specialist offers a variety of hands-on programs to schools throughout Wake County. Program topics include: *Fossil Fun* (K-2), *Bats* (3-6), *Reptile Riddles* (3-12), *Wolves* (3-12), and *Rain Forests* (3-12). These programs are designed to enhance goals and objectives set forth in elements of the North Carolina Basic Education Program. Pre-visit activities are mailed in advance of the school visit and post-visit activities are provided to reinforce the program. A listing of educational services is available upon request.

Audience: Kindergarten-grade 12

Teacher Accreditation: N/A

Location: Schools throughout Wake County

When: Tuesdays and Thursdays. Registration for programs begins the third week in September.

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
Wake County Natural Sciences Specialist
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

GIRL SCOUT PATCH—NORTH CAROLINA ZOOLOGICAL PARK

Type of Program: The Girl Scout Patch program offers Girl Scout Troops (Brownie-Senior) the opportunity to earn free admission to the North Carolina Zoological Park by completing a number of activities prior to their visit. The activities teach scouts about zoo animals and increase awareness of ways to protect the environment and conserve wildlife.

Audience: Girl Scout Troops (Brownie-Senior)

Teacher Accreditation: N/A

Location: N/A

When: Year-round

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
North Carolina Zoological Park
Education Division
4401 Zoo Parkway
Asheboro, NC 27203-9416
(910) 879-7700

Local Girl Scout Councils

ENVIRONMENTAL EDUCATION FIELD TRIPS AND SITE VISITS

FIELD TRIPS OF THE NORTH CAROLINA NATIONAL ESTUARINE RESEARCH RESERVE—DIVISION OF COASTAL MANAGEMENT

Type of Program: The Education Specialist within Division of Coastal Management conducts a variety of programs and field trips related to the marine ecosystem. Field trips to sites within the National Estuarine Research Reserve enable students to study the coast firsthand. These sites include Currituck Banks, Rachel Carson, Masonboro Island, and Zeke's Island.

Audience: Grade 5 to adult with group size limited to 25

Teacher Accreditation: N/A

Location: Currituck Banks, Rachel Carson Site, Masonboro Island, and Zeke's Island

When: April 1-October 31

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
North Carolina Division of Coastal Management
Education Specialist
P.O. Box 1040
Beaufort, NC 28516-1040
(919) 728-2170

North Carolina Department of Environment, Health, and Natural Resources
North Carolina Division of Coastal Management
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-2293

SOUND SIDE EXPLORERS—DIVISION OF COASTAL MANAGEMENT

Type of Program: Sound Side Explorers is a program for 9 to 12-year-olds that allows them a chance to explore marine ecosystems and to learn about their importance through activities conducted by the Education Specialist within the Division of Coastal Management.

Audience: 9 to 12 year-olds

Teacher Accreditation: N/A

Location: Rachel Carson Site and Zeke's Island

When: Summer. Information is available upon request.

Cost: Free. Sign-ups are first-come, first-serve with a limit of 15.

Contact: North Carolina Department of Environment, Health, and Natural Resources
North Carolina Division of Coastal Management
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-2293

North Carolina Department of Environment, Health, and Natural Resources
North Carolina Division of Coastal Management
Coastal Reserve Manager
P.O. Box 1040
Beaufort, NC 28516-1040
(919) 728-2170

EDUCATIONAL STATE FOREST CLASSES
DIVISION OF FOREST RESOURCES

Type of Program: There are 14 classes developed by Educational State Forest Rangers with the Department of Public Instruction which meet North Carolina Competency-Based Curriculum. The Educational State Forest Rangers conduct the 30-45 minute classes on a variety of topics associated with forests and the forest ecosystem. More information on specific classes is available upon request.

Audience: Kindergarten-grade 6 school groups and other interested groups.

Teacher Accreditation: N/A

Location: Each of the educational state forests in Hendersonville, Lenoir, Purlear, Chapel Hill, Clayton, and Elizabethtown have educational classes.

When: The educational state forests are opened to the public from the third Wednesday in March through Thanksgiving. Please contact each forest directly for more information.

Cost: Free

Contact: Due to the small staff and great demand for this resource, reservations should be made months in advance.

Clemmons Educational State Forest
2411 Garner Road
Clayton, NC 27520
(919) 553-5651

Holmes Educational State Forest
Route 4 Box 308
Hendersonville, NC 28739
(704) 692-0100

Jordan Lake Educational State Forest
2832 Big Woods Road
Chapel Hill, NC 27514
(919) 542-1154 (expected opening Spring 1995)

Rendezvous Mountain Educational Forest
P.O. Box 42
Purlear, NC 28665
(910) 667-5072

Turnbull Creek Educational State Forest
Route 2 Box 942-A
Elizabethtown, NC 28337
(910) 588-4161

Tuttle Educational State Forest
Route 6 Box 417
Lenoir, NC 28645
(704) 757-5608

TALKING ROCK TRAIL—DIVISION OF FOREST RESOURCES AND DIVISION OF LAND RESOURCES

Type of Program: The Talking Rock Trail is a self-guided walking tour through the Clemmons Educational State Forests in Clayton where visitors learn about rocks indigenous to the coastal plain and the relationship of rocks to forests and ground water.

Audience: General public

Teacher Accreditation: N/A

Location: Clemmons Educational State Forest in Clayton

When: Expected opening is March 1994.

Cost: Free

Contact: Clemmons Educational State Forest
411 Garner Road
Clayton, NC 27520
(919) 553-5651

North Carolina Department of Environment, Health, and Natural Resources
Division of Land Resources
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-3833

TALKING TREE TRAILS—DIVISION OF FOREST RESOURCES

Type of Program: Talking Tree Trails are self-guided walking tours through the state educational forests where visitors learn about many kinds of trees, their role in forest ecology, and the products made from them. Additionally, some trees relate tales on local history pertaining to the forests.

Audience: General public, kindergarten-grade 12 school groups

Teacher Accreditation: N/A

Location: Clemmons Educational State Forest in Clayton, Holmes Educational State Forest in Hendersonville, Tuttle Educational State Forest in Lenoir, and Rendezvous Educational Forest in Purlear.

When: Mid-March through day after Thanksgiving. Each educational state forest varies in days and hours of operation. Contact each educational state forest directly for more information.

Cost: Free

Contact:

Clemmons Educational State Forest
2411 Garner Road
Clayton, NC 27520
(919) 553-5651

Holmes Educational State Forest
Route 4 Box 308
Hendersonville, NC 28739
(704) 692-0100

Jordan Lake Educational State Forest
2832 Big Woods Road
Chapel Hill, NC 27514
(919) 542-1154 (expected opening Spring 1995)

Rendezvous Mountain Educational Forest
P.O. Box 42
Purlear, NC 28665
(910) 667-5072

Turnbull Creek Educational State Forest
Route 2 Box 942- A
Elizabethtown, NC 28337
(910) 588-4161
(Talking Tree Trail expected opening Spring 1995)

Tuttle Educational State Forest
Route 6 Box 417
Lenoir, NC 28645
(704) 757-5608

ENVIRONMENTAL EDUCATION LEARNING EXPERIENCE (EELE)
DIVISION OF PARKS AND RECREATION

Type of Program: The Environmental Education Learning Experience (EELE) is a hands-on activity packet developed for each state park and recreation area based on the primary feature or theme of the park. Each EELE packet contains pre-park visit activities, on-site activities, and post-park visit activities that have measurable objectives, background information, vocabulary, references, and step-by-step instructions to the activities, all of which are correlated to the Department of Public Instruction curriculum. The EELE on-site programs are available by reservation only and are administered to visiting groups by park staff and volunteers.

Audience: Kindergarten-grade 12

Teacher Accreditation: N/A

Location: As of January 1994, nine packets have been produced for Carolina Beach State Park, Eno River State Park, Jordan Lake State Recreation Area, Morrow Mountain State Park, Jockey's Ridge State Park, Hanging Rock State Park, Duke Power State Park, Merchants Millpond State Park, and Fort Fisher State Recreation Area. All 30 packets will be available in 1994.

When: Year-round. Each park or recreation area has specific hours of operation. Contact parks directly for more information. Reservations should be made at least two weeks in advance. The appendix of this publication contains a list of all the state parks and recreation areas providing environmental education services.

Cost: The Environmental Education Learning Experience Program is free. The EELE packet is free to those who have taken an EELE Teacher Workshop (See page 42).

Contact: North Carolina Department of Environment, Health, and Natural Resources
Division of Parks and Recreation
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-4181

PARKS AND RECREATION AREA EDUCATIONAL PROGRAMS
DIVISION OF PARKS AND RECREATION

Type of Program: The Division of Parks and Recreation offers a variety of educational activities that meet the Department of Public Instruction curriculum requirements. Programs given by park rangers at North Carolina's State Parks and Recreation Areas include: amphibians and reptiles, animals, astronomy, birds, coastal animals, coastal life, coastal processes, fish/fishing, geology, insects and spiders, mammals, mountains, nature games, nature music, plants, pollution,

recycling, rivers/fresh water, seasons, soils and erosion, trees, weather, wetlands, and wildflowers. Contact the state park or recreation area directly for specific programs offered at each site and the free Educator's Guide. The appendix of this publication provides addresses and phone numbers of the state parks and recreation areas in North Carolina offering environmental education services.

Audience: Kindergarten-grade 12

Teacher Accreditation: N/A

Location: All state parks and recreation areas. The appendix of this publication lists the addresses and phone numbers of the state parks and recreation areas offering environmental education opportunities.

When: Year-round. Reservations should be made two weeks in advance.

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
Division of Parks and Recreation
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-4181

ENVIROTHON—DIVISION OF SOIL AND WATER CONSERVATION

Type of Program: Envirothon is a contest for teams of five high school students competing in natural resource knowledge and ecology. The competition involves a written test completed by the teams. Winners advance to the state level and then proceed to the national level. The Division of Soil and Water Conservation provides resource packets to assist teams in preparing for the competition and coordinates the state level contest. An entire class or group may participate in studying the resources, but only five members can be on a team. A class or school may form more than one team.

Audience: High school students in grades 9-12 from the same school

Teacher Accreditation: N/A

Location: Area contests are held within the eight Areas of North Carolina Association of Soil and Water Conservation Districts that divide North Carolina, the state competition is held in Burlington, and the national contest location varies each year across the United States.

When: Area contests are held any time before April. The state competition is held on a Saturday in April, 10:00 a.m.-12:30 p.m.

Cost: $20 registration fee per team. Local Soil and Water Conservation Districts are encouraged to sponsor teams.

Contact: For more information or a free copy of the Contest Handbook, contact your local Soil and Water Conservation District or contact the Division of Soil and Water Conservation. The appendix of this publication provides a listing of the eight Areas of the North Carolina Association of Soil and Water Conservation Districts, and the local Soil and Water Conservation Districts in North Carolina.

North Carolina Department of Environment, Health, and Natural Resources
Division of Soil and Water Conservation
Envirothon Program Coordinator
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 571-4700

SOIL AND WATER CONSERVATION FIELD DAYS
DIVISION OF SOIL AND WATER CONSERVATION

Type of Program: Active Soil and Water Conservation Districts throughout North Carolina sponsor field days in which stations are set up on various environmental issues such as forestry, wildlife, soil sciences, hazardous waste, and soil and water conservation. At each station, 15 to 20 school children in specific grades or combined grade levels participate in the hands-on activities. The Division of Soil and Water Conservation provides staff support at the stations.

Audience: Kindergarten-grade 12

Teacher Accreditation: N/A

Location: Within the Local Soil and Water Conservation Districts throughout North Carolina. See the appendix in this publication for a listing of the local Soil and Water Conservation Districts in North Carolina.

When: Information is available upon request by contacting the Division of Soil and Water Conservation or your local Soil and Water Conservation District. See the appendix of this guide for a listing of districts.

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
Division of Soil and Water Conservation
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-2302

STREAM WATCH—DIVISION OF WATER RESOURCES

Type of Program: Stream Watch is a volunteer program made up of individuals or groups wanting to adopt a North Carolina Stream. Protection of a watershed can take many forms depending on the interest of the group. Examples include: stream inventories, outings, monitoring, involvement in the permit process, working with local governments and businesses, stream improvement, and education. Groups or individuals interested in beginning a Stream Watch Program should contact the Stream Watch Coordinator within the Division of Water Resources. The Coordinator will assist in setting up a program based on specific needs. Stream Watch members receive free educational materials, a quarterly newsletter, and the counsel of the Stream Watch Coordinator.

Audience: General public, school groups (K-12), communities, and neighborhood organizations. Stream Watch groups consist of individuals or groups. There are approximately 200 groups established in North Carolina.

Teacher Accreditation: N/A

Location: Statewide

When: N/A

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
Stream Watch Coordinator
Division of Water Resources
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-4064

EDUCATIONAL PROGRAMS—NORTH CAROLINA AQUARIUM—FORT FISHER

Type of Program: There are a variety of programs available to schools including: *Ditch Denizens, The Shell Makers, Horseshoe Crabs-Living Fossils, Armored Animals, The Sea Turtle, American Alligators, Sharks in Our Waters, Children's Discovery Time, Gyotaku* (fish printing), *Nature Crafts,* and *Food From the Sea.* More information on each program is available upon request.

Audience: Preschool-grade 12

Teacher Accreditation: N/A

Location: The North Carolina Aquarium at Fort Fisher

When: Weekdays throughout the school year

Cost: Programs are free Tuesday and Thursday except those involving a craft. More information is available upon request.

Contact: To schedule a program, call the Aquarium Education Department, 9 a.m.-4 p.m. Tuesday through Friday. Fall reservations are accepted after September 1; spring reservations are accepted after January 1. Schedule at least two weeks in advance.

North Carolina Department of Environment, Health, and Natural Resources
North Carolina Aquarium
Fort Fisher
P.O. Box 130
South Kure Beach, NC 28449-0130
(910) 458-8258

SCHOOL FIELD TRIPS—NORTH CAROLINA AQUARIUM—FORT FISHER

Type of Program: School field trips offer students hands-on experience in a variety of coastal environments. Programs include: *Salt Marsh Explorations, Rocky Outcrop Exploration, Open Beach Exploration, Surf Fishing, Canoeing the Salt Marsh,* and *Food from the Sea.* Combinations of programs are offered upon request. Individual programs are 90 minutes in length while combination programs last two hours. More information is available upon request.

Audience: Kindergarten-grade 12

Teacher Accreditation: N/A

Location: Coastal habitats near the North Carolina Aquarium at Fort Fisher

When: Weekdays throughout the school year

Cost: $3 to $5 per person. *Canoeing the Salt Marsh* is $12 per person. More information is available upon request.

Contact: To schedule a program, call the Education Department, 9 a.m.-4 p.m. Tuesday through Friday. Fall reservations are accepted after September 1; spring reservations are accepted after January 1. Schedule at least two weeks in advance.

North Carolina Department of Environment, Health, and Natural Resources
North Carolina Aquarium
Fort Fisher
P.O. Box 130
South Kure Beach, NC 28449-0130
(910) 458-8258

AUDITORIUM AND CLASSROOM PROGRAMS
NORTH CAROLINA AQUARIUM—PINE KNOLL SHORES

Type of Program: There are a variety of programs available to schools including: *The Food Web, Marine Mammals, Sea Turtles, Sharks, Seashell Dwellers, The Living Fossil, Fish-Body Form and Art Form,* and *Marine Invertebrate Lab.* More information on each program and a registration form is included in the free Education Guide available upon request.

Audience: Preschool-grade 12

Teacher Accreditation: N/A

Location: The North Carolina Aquarium at Pine Knoll Shores

When: Tuesday-Friday throughout the school year

Cost: Programs are free except *Fish-Body Form and Art Form* and *Marine Invertebrate Lab.* Fee information is provided in the free Education Guide.

Contact: All reservations must be made by mail. Contact the Aquarium weekdays 2 p.m.-5 p.m. for additional information.

North Carolina Department of Environment, Health, and Natural Resources
Education Department
North Carolina Aquarium
Pine Knoll Shores
P.O. Box 580
Atlantic Beach, NC 28512-0580
(919) 247-4004

NATURAL HISTORY STUDIES
NORTH CAROLINA AQUARIUM—PINE KNOLL SHORES

Type of Program: Natural History Studies programs provide participants with an in-depth look at a variety of coastal environments. Classroom instruction and written materials are combined with exciting field excursions. Programs include: *Estuary and Salt Marsh Study, Ocean Dynamics and Ocean Beach Exploration, Onboard Collecting Cruise,* and *Explore Shackleford Banks.* For more information, contact the Aquarium for the Education Guide.

Audience: Grade 4-adults

Teacher Accreditation: N/A

Location: The Aquarium at Pine Knoll Shores and coastal habitats near the Aquarium

When: Daily throughout the school year. Some programs are weather and tide dependent.

Cost: Fees are required for these programs. Fee information is provided in the free Education Guide.

Contact: All reservations must be made by mail. Contact the Aquarium weekdays 2 p.m.-5 p.m. for additional information.

North Carolina Department of Environment, Health, and Natural Resources
Education Department
North Carolina Aquarium
Pine Knoll Shores
P.O. Box 580
Atlantic Beach, NC 28512-0580
(919) 247-4004

SCHOOL FIELD TRIPS—NORTH CAROLINA AQUARIUM—PINE KNOLL SHORES

Type of Program: School field trips offer students an introduction to a variety of coastal environments. Programs include: *Beach Walk, Salt Marsh Walk,* and *Maritime Forest Hike.* More information on each program is included in the free Education Guide that is available upon request.

Audience: Grade 4-adults

Teacher Accreditation: N/A

Location: The Aquarium at Pine Knoll Shores and coastal habitats near the Aquarium

When: Weekdays throughout the school year

Cost: Free

Contact: All reservations must be made by mail. Contact the Aquarium weekdays 2 p.m.-5 p.m. for the Education Guide and a reservation form.

North Carolina Department of Environment, Health, and Natural Resources
Education Department
North Carolina Aquarium
Pine Knoll Shores
P.O. Box 580
Atlantic Beach, NC 28512-0580
(919) 247-4004

EDUCATIONAL PROGRAMS
NORTH CAROLINA AQUARIUM—ROANOKE ISLAND

Type of Program: Many interesting programs conducted by the education staff of the Aquarium are available for school groups. Some of the programs are enhanced with live animal and can be tailored to any age level. Programs include: *Water World Creatures, Sea Turtles, Fishy Adaptations,*

The Horseshoe Crab, Sharks, Gyotaku (fish printing), and *Seafood Sampler*. The free Teacher's Guide to Educational Offerings provides more detailed information on each program and is available upon request.

Audience: Preschool-grade 12

Teacher Accreditation: N/A

Location: The North Carolina Aquarium on Roanoke Island

When: Tuesdays-Fridays throughout the school year, subject to staff availability.

Cost: Most programs are free except those involving a craft ($1-$2 per person). See the free Teacher's Guide to Educational Offerings for more information.

Contact: To schedule a program, call the Aquarium from 9 a.m.-4 p.m. Tuesday through Friday. Fall reservations are accepted after September 1; spring reservations are accepted after January 1. Schedule at least two weeks in advance.

North Carolina Department of Environment, Health, and Natural Resources
North Carolina Aquarium on Roanoke Island
P.O. Box 967
Manteo, NC 27954-0967
(919) 473-3494

AN HOUR AT THE AQUARIUM
NORTH CAROLINA AQUARIUM—ROANOKE ISLAND

Type of Program: This hour-long program consists of a film, question/answer time, and a teacher-led tour. Films cover a variety of coastal topics. It is an excellent general program for large groups with only an hour to spend. An extensive list is included in the free Teacher's Guide to Educational Offerings that is available upon request.

Audience: Kindergarten-adult

Teacher Accreditation: N/A

Location: The North Carolina Aquarium on Roanoke Island

When: Tuesday-Friday throughout the school year

Cost: Free

Contact: To schedule a program, call the Aquarium from 9 a.m.-4 p.m. Tuesday through Friday. Fall reservations are accepted after September 1; spring reservations are accepted after January 1. Schedule at least two weeks in advance.

North Carolina Department of Environment, Health, and Natural Resources
The North Carolina Aquarium on Roanoke Island
P.O. Box 967
Manteo, NC 27954-0967
(919) 473-3494

SCHOOL FIELD TRIPS
NORTH CAROLINA AQUARIUM—ROANOKE ISLAND

Type of Program: Three field trips are offered: *Exploring the Salt Marsh*, *Ecology of the Beach*, and *Life in Shallowbag Bay* (on the water). Each field trip enables participants to observe plants and animals of the coastal environments near the Aquarium. The free Teacher's Guide to Educational Offerings provides more detailed information on each program and is available upon request.

Audience: Grades 6 and up. *Exploring the Salt Marsh* and *Ecology of the Beach* are limited to 20 participants and *Life in Shallowbag Bay* is limited to six participants.

Teacher Accreditation: N/A

Location: Coastal habitats around Dare County

When: Tuesdays-Fridays throughout the school year, subject to staff availability

Cost: $2 to $10 per person

Contact: To schedule a program, call the Aquarium from 9 a.m.-4 p.m. Tuesday through Friday. Fall reservations are accepted after September 1; spring reservations are accepted after January 1. Schedule at least two weeks in advance.

North Carolina Department of Environment, Health, and Natural Resources
North Carolina Aquarium on Roanoke Island
P.O. Box 967
Manteo, NC 27954-0967
(919) 473-3494

CURIOSITY CLASSES
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: Curiosity Classes are hands-on programs for school groups presented by trained volunteers and staff of the North Carolina State Museum of Natural Sciences. There are 13 classes to choose from including: *What is an Animal?*, *How Animals Eat*, *Animals and Their Babies*, *Mammals*, *Reptiles*, *Amphibians and Reptiles*, *Fossils and Rocks*, *Rocks and Minerals*, *Sealife*, *Insects and Spiders*, *Backyard Wildlife*, *Tropical Connection*, *1001 Jars of Snakes*, and *How the Museums Do*

Museums Do Scientific Research. The North Carolina State Museum of Natural Sciences offers the Teacher's Guide to Museum Services that contains a detailed description of each program.

Audience: Preschool-grade 12

Teacher Accreditation: N/A

Location: North Carolina State Museum of Natural Sciences

When: October through first week of May, Tuesdays through Fridays: 9:30, 10:30, 11:30 a.m.

Cost: $25 per Curiosity Class of up to 35 students. The minimum class size is 8; maximum class size is 60. Groups larger than 35 are charged an additional $25.

Contact: To schedule, call Monday through Friday 9:00 a.m.-4:00 p.m. Reservations must be made two weeks in advance. Scheduling starts the third week in August. Schedule early. These classes are becoming so popular that time slots for the entire year are filled by the end of October.

North Carolina Department of Environment, Health, and Natural Resources
Assistant Director of School Programs
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

DISCOVERY FUN
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: Discovery Fun Classes are programs especially designed for 3, 4, and 5 year-olds in the Museum's Discovery Room. Topics include: *By the Pond, In the Backyard,* and *By the Sea.*

Audience: 3, 4, and 5 year-olds. Preschool and day care classes.

Teacher Accreditation: N/A

Location: North Carolina State Museum of Natural Sciences

When: October through May, Tuesdays through Fridays: 9:30, 10:30, 11:30 a.m.

Cost: $25 per Discovery Fun Class. Financial assistance is available to some groups. Write to the Director of School Programs for more information or to request financial assistance.

Contact: To schedule, call Tuesday through Friday 9:00 a.m.-4:00 p.m. Scheduling starts the third week in August.

North Carolina Department of Environment, Health, and Natural Resources
Discovery Fun Coordinator
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

DISCOVERY ROOM
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: The Discovery Room is an educational space giving visitors the opportunity to select and handle specimens and interact with staff and docents.

Audience: General public. Special emphasis is placed on parent-child collaborative learning and on experiences for the very young.

Teacher Accreditation: N/A

Location: North Carolina State Museum of Natural Sciences

When: October through May, Monday-Friday from 12:30-3:00 p.m., Saturdays 12:30-4:00 p.m., and Sundays 1:00-4:30 p.m. Call for summer hours.

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

GIRLS' SCIENCE CLUB
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: Girls' Science Club was created in response to research indicating that young women are losing interest in the sciences as they enter adolescence. The Club runs for seven weeks and provides a group of 12 girls with exposure to women in science, offering direct experiences in the natural sciences. Participants are recommended to the program by their sixth grade science teachers.

Audience: Sixth-grade girls in Wake County

Teacher Accreditation: N/A

Location: North Carolina State Museum of Natural Sciences

When: Spring and Fall. Contact the North Carolina State Museum of Natural Sciences for the selection process and date of program.

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
Wake County Natural Sciences Specialist
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

JUNIOR CURATORS
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: The Junior Curator Program sponsored by the North Carolina State Museum of Natural Sciences is geared for students expressing an intense interest in natural history and a desire to help care for the museum's living animals. Each Junior Curator volunteers six hours each month at the Museum. The Museum staff offers junior curators special seminars and field opportunities in appreciation for their efforts.

Audience: School students in grades 7-12. Approximately 28-32 junior curators are chosen each year.

Teacher Accreditation: N/A

Location: North Carolina State Museum of Natural Sciences

When: Applications are due in July and are available upon request. Junior Curators participate in the program for one to six years.

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
Assistant Director of Public Programs
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

NORTH CAROLINA HABITAT WATCH
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: North Carolina Habitat Watch is a program in which participants become involved in on-going research projects conducted by staff of the North Carolina State Museum of Natural Sciences. Contact the North Carolina State Museum of Natural Sciences for more information.

Audience: General public and families

Teacher Accreditation: N/A

Location: Research Projects vary each year. See the North Carolina Naturalist for more information.

When: Research Projects vary each year. See the North Carolina Naturalist for more information.

Cost: Research Projects vary each year. See the North Carolina Naturalist for more information.

Contact: North Carolina Department of Environment, Health, and Natural Resources
Director of Public Programs
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

SATURDAY STORYTIME
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: The North Carolina State Museum of Natural Sciences offers a special storytime related to the natural sciences for children and families.

Audience: Preschool through elementary-age children

Teacher Accreditation: N/A

Location: North Carolina State Museum of Natural Sciences

When: Saturdays 2:00-2:30 p.m., October through May. No registration is necessary.

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-2955
(919) 733-7450

SUNDAY AT THREE
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: The North Carolina State Museum of Natural Sciences sponsors presentations by guest lecturers on various natural history topics. Topics are announced in the North Carolina Naturalist. Contact the North Carolina State Museum of Natural Sciences for more information.

Audience: General public and families

Teacher Accreditation: N/A

Location: North Carolina State Museum of Natural Sciences

When: Second Sunday of each month, October through May

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

WAKE'S WILD ONES
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: This program is available to fifth graders participating in an extended overnight visit to Durant and Blue Jay Point Nature Parks. Through the study of aquatic organisms, this hands-on program teaches identification and ecology of local aquatic wildlife.

Audience: Grade 5 school students participating in an overnight visit to Blue Jay Point and Durant Nature Parks

Teacher Accreditation: N/A

Location: Blue Jay Point and Durant Nature Parks located in Wake County

When: Tuesdays and Thursdays from October through November and February through April

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
Wake County Natural Science Specialist
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

EDUCATIONAL EXPERIENCE—NORTH CAROLINA ZOOLOGICAL PARK

Type of Program: The Education Division of the Zoo provides interactive programs for school groups. Programs include: *Walk on the Wild Side* (Pre-K), *Wild Wrappers* (K-2), *Habitat Sweet Habitat* (3-8), and *Going . . . Going . . . Gone* (9-12).

In addition, the Discovery Room for grades 3-6 offers exciting hands-on educational activities which encourage students to have fun as they learn. Guided tours of the R.J. Reynolds Forest Aviary or the African Pavilion can be scheduled for grades K-12. Specially designed programs for college and university groups

are available upon request. Written materials, such as informational scavenger hunts, are also available.

Audience: Preschool-grade 12

Teacher Accreditation: N/A

Location: North Carolina Zoological Park

When: October-March, Monday-Friday, 10:00 a.m., 11:00 a.m., and 12:00 p.m.

Cost: Zoo admission is free to registered North Carolina school groups, including college and university level students. Scheduled programs cost $25.00 per session with a maximum class size of 30 students.

Contact: To schedule a class, reservations must be made two weeks in advance and are considered complete when a confirmation letter and program fee are received.

North Carolina Department of Environment, Health, and Natural Resources
North Carolina Zoological Park
Education Division
4401 Zoo Parkway
Asheboro, NC 27203-9416
(910) 334-4024

SMART CARTS—NORTH CAROLINA ZOOLOGICAL PARK

Type of Program: Smart Carts, staffed by the Education Division, are stationed throughout the Zoo and offer informal programs using biofacts, on topics such as animal adaptations, animal behaviors, and conservation. In addition, education staff rove throughout the Zoo extending opportunities for visitor interaction.

Audience: General public

Teacher Accreditation: N/A

Location: North Carolina Zoological Park

When: April-October, 10:00 a.m.-2:00 p.m.

Cost: Free

Contact: North Carolina Department of Environment, Health and Natural Resources
North Carolina Zoological Park Education Division
4401 Zoo Parkway-9416
Asheboro, NC 27203
(910) 879-7700

SUMMER ZOO ADVENTURES FOR KIDS
NORTH CAROLINA ZOOLOGICAL PARK

Type of Program: Summer Zoo Adventures for Kids offers children opportunities to explore the world of plants and animals through a variety of programs, crafts, and activities. Sessions include such topics as: *Things That Go Bump, Amazing Feets, Discovering Deserts,* and *Going . . . Going . . . Gone.* Contact the Education Division for more details on each program.

Audience: Grades 3-6

Teacher Accreditation: N/A

Location: North Carolina Zoological Park

When: June-August. Schedule is available upon request.

Cost: $12 /$10-North Carolina Zoo Society members

Contact: Registrations are considered complete when registration form and fee are received.

North Carolina Department of Environment, Health, and Natural Resources
North Carolina Zoological Park Education Division
4401 Zoo Parkway
Asheboro, NC 27203-9416
(910) 879-7700

EDUCATIONAL OPPORTUNITIES FOR TEACHERS

PROJECT ESTUARY AND SOUND IDEAS WORKSHOPS
DIVISION OF COASTAL MANAGEMENT

Type of Program: Project Estuary and Sound Ideas workshops provide teachers with hands-on experience in using the Project Estuary and Sound Ideas curriculum guides in the classroom. The workshops include field trips to the coastal habitats of the National Estuarine Research Reserve System at Rachel Carson and Zeke's Island.

Audience: Project Estuary is designed for educators teaching grades 6-8 while Sound Ideas is geared for K-5 educators.

Teacher Accreditation: 1.5 certificate renewal credits are available.

Location: Coastal habitats near the Rachel Carson Components and Zeke's Island

When: Workshops are typically held in October, spring, and summer at Rachel Carson and Zeke's Island. Schedules are available upon request.

Cost: The workshops are free. Participants are responsible for meals and lodging. More information is available upon request.

Contact: North Carolina Department of Environment, Health, and Natural Resources
North Carolina Division of Coastal Management
Education Specialist
P.O. Box 1040
Beaufort, NC 28516-1040
(919) 728-2170

North Carolina Department of Environment, Health, and Natural Resources
North Carolina Division of Coastal Management
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-2293

INVESTIGATING YOUR ENVIRONMENT—DIVISION OF FOREST RESOURCES

Type of Program: *Investigating Your Environment* is a five-day, 30-hour, process-oriented workshop conducted by educational state forest staff within the Division of Forest Resources. The workshop centers on field investigations in the forest, soil, water, land use, wildlife, and community planning simulations.

Audience: This workshop is geared for kindergarten-grade 12 teachers, scout and 4-H leaders, and anyone else interested in teaching outdoor education.

Teacher Accreditation: 3.0 certificate renewal credits are available upon completion of the workshop.

Location: These programs are given at the six educational state forests in Hendersonville, Lenoir, Purlear, Clayton, Chapel Hill, Elizabethtown.

When: Workshops are conducted in June and July. Schedules are available upon request.

Cost: $35 price includes teaching materials and posters

Contact: North Carolina Department of Environment, Health, and Natural Resources
Division of Forest Resources
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-2162

Clemmons Educational State Forest
2411 Garner Road
Clayton, NC 27520
(919) 553-5651

Holmes Educational State Forest
Route 4 Box 308
Hendersonville, NC 28739
(704) 692-0100

Jordan Lake Educational State Forest
2832 Big Woods Road
Chapel Hill, NC 27514
(919) 542-1154

Rendezvous Mountain Educational Forest
P.O. Box 42
Purlear, NC 28665
(910) 667-5072

Turnbull Creek Educational State Forest
Route 2 Box 942- A
Elizabethtown, NC 28337
(910) 588-4161

Tuttle Educational State Forest
Route 6 Box 417
Lenoir, NC 28645
(704) 757-5608

PROJECT LEARNING TREE—DIVISION OF FOREST RESOURCES

Type of Program: Project Learning Tree is a 6 or 10-hour workshop conducted by the Division of Forest Resources staff and co-sponsored by the North Carolina Cooperative Extension Service, the North Carolina Forestry Association, and the University of North Carolina Center for Mathematics and Science Education. The workshop focuses on training educators to incorporate hands-on activities into the teaching process. This learning process enables students to become involved with their environment and to better understand the link between people and nature.

Audience: This workshop is for kindergarten-grade 12 educators, foresters, park and nature staff, and youth group leaders.

Teacher Accreditation: Certificate renewal credit is available to teachers attending 10-hour workshops.

Location: These programs are given at the educational state forests in Hendersonville, Lenoir, Purlear, Clayton, Chapel Hill, and Elizabethtown.

When: Schedules are available upon request.

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources—Division of Forest Resources
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-2162

Clemmons Educational State Forest
2411 Garner Road
Clayton, NC 27520
(919) 553-5651

Holmes Educational State Forest
Route 4 Box 308
Hendersonville, NC 28739
(704) 692-0100

Jordan Lake Educational State Forest
2832 Big Woods Road
Chapel Hill, NC 27514
(919) 542-1154

Rendezvous Mountain Educational Forest
P.O. Box 42
Purlear, NC 28665
(910) 667-5072

Turnbull Creek Educational State Forest
Route 2 Box 942- A
Elizabethtown, NC 28337
(910) 588-4161

Tuttle Educational State Forest
Route 6 Box 417
Lenoir, NC 28645
(704) 757-5608

ENVIRONMENTAL EDUCATION LEARNING EXPERIENCE (EELE) WORKSHOP DIVISION OF PARKS AND RECREATION

Type of Program: The teacher workshop is designed to teach educators how to use the Environmental Education Learning Experience (EELE) activity packets developed for state parks and recreation areas in North Carolina (see Environmental Education Learning Experience on page 21). They also acquaint the educators with natural and cultural resources of the park and help the educator understand how to work safely and responsibly in the out-of-doors. Each EELE was developed based on the primary feature or theme of the state park or recreation area.

Audience: Kindergarten-grade 12 educators

Teacher Accreditation: One certificate renewal credit is available.

Location: All state parks and recreation areas. The appendix of this publication contains a list of the state park and recreation areas offering environmental education services.

When: Information is available upon request from each state park and recreation area or from the Division of Parks and Recreation Central Office.

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
Division of Parks and Recreation
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-4181

TEACHER TRAINING—NORTH CAROLINA AQUARIUMS

Type of Program: Each of the three North Carolina Aquariums offers teacher training opportunities. Content and activities involving marine and other aquatic environments are adapted to user groups. Workshops incorporate classroom and field activities.

Audience: Kindergarten-grade 12 teachers and informal educators

Teacher Accreditation: Certificate renewal credits are available depending on the workshop.

Location: North Carolina Aquarium on Roanoke Island
North Carolina Aquarium at Pine Knoll Shores
North Carolina Aquarium at Fort Fisher
Off-site workshops are possible, but are subject to staff availability.

When: Workshops are scheduled through the Education Departments of the three North Carolina Aquariums and are subject to staff availability.

Cost: Information is available upon request.

Contact: North Carolina Department of Environment, Health, and Natural Resources
Education Department
North Carolina Aquarium on Roanoke Island
P.O. Box 967
Manteo, NC 27954-0967
(919) 473-3494

North Carolina Department of Environment, Health, and Natural Resources
Education Department
North Carolina Aquarium at Pine Knoll Shores
P.O. Box 580
Atlantic Beach, NC 28512-0580
(919) 247-4004

North Carolina Department of Environment, Health, and Natural Resources
Education Department
North Carolina Aquarium at Fort Fisher
P.O. Box 130
Kure Beach, NC 28449-0130
(910) 458-7468

CLASSROOM VIDEOS
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: In conjunction with the North Carolina Department of Public Instruction and the N.C. Science and Mathematics Alliance, the Museum has produced two one-hour satellite workshops on Using the School Grounds as a Resource. Two titles are available on 1/2" VHS videocassette. *Creating Miniponds at Your School Site* contains tips on creating miniponds on your school grounds and studio demonstrations of suggested native aquatic plants that can be used to help maintain a balanced pond environment. *Creating Butterfly Gardens* provides a mixture of how-to tips and highlights of the plants and animals that can be found in a butterfly garden. Practical tips on design consideration, plant selection and hints for successful gardening are shared through examples from schools across North Carolina. Suggestions are also given on how to raise butterflies and moths in the classroom and on strategies for using a butterfly garden in teaching various subjects.

Audience: Kindergarten-grade 12 science teachers

Teacher Accreditation: N/A

Location: Statewide

When: Year-round

Cost: $17 per tape plus 6% North Carolina sales tax. Allow four-six weeks for delivery.

Contact: North Carolina Department of Environment, Health, and Natural Resources
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

TEACHER TREKS—EXTENDED EXPLORATIONS
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: Extended Exploration offers teachers the opportunity to spend a weekend to five days studying in various environments in North Carolina. These workshops allow educators to gain practical experience in improving teaching inside and outside the classroom. Four workshops are available: *Spring Mountain Ecology*, *School Grounds Ecology*, *Coastal Ecology*, and *Summer Mountain Ecology*.

Audience: Kindergarten-grade 12 teachers, teaching assistants, student teachers, school administrators, environmental educators, state or local park personnel, scout/4-H leaders, Native American guides, camp counselors, and YMCA/YWCA youth leaders

Teacher Accreditation: One to three hours certificate renewal credit. More information is available in the free Teacher's Guide to Museum Services.

Location: Information is available in the free Teacher's Guide to Museum Services.

When: Information is available in the free Teacher's Guide to Museum Services.

Cost: $100-$350

Contact: For a copy of the Teacher's Guide to Museum Services and an application form, contact the North Carolina State Museum of Natural Sciences:

North Carolina Department of Environment, Health, and Natural Resources
Director of School Programs
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

TEACHER TREKS-ONE DAY EXPLORATIONS
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: One-day Teacher Treks are explorations that take teachers to natural areas within a day's drive of Raleigh. These workshops provide educators with practical experience that helps improve teaching inside and outside the classroom. Workshop activities begin in the museum van as participants travel to the study site. Three treks are available. Natural areas visited change annually. Sites visited include: Bear Island, Hammocks Beach State Park, Pocosin Lakes National Wildlife Refuge and Pettigrew State Park, and Bluff Mountain in the Blue Ridge Mountains. More information is available in the free Teacher's Guide to Museum Services.

Audience: Kindergarten-grade 12 teachers, teaching assistants, student teachers, school administrators, environmental educators, state or local park personnel, scout/4-H leaders, Native American guides, camp counselors, and YMCA/YWCA youth leaders

Teacher Accreditation: One-hour certificate renewal credit for any two, one-day explorations

Location: Workshops begin at the North Carolina State Museum of Natural Sciences. Transportation to the field trip site is provided by the museum.

When: Information is available in the free Teacher's Guide to Museum Services.

Cost: $25

Contact: For a copy of the Teacher's Guide to Museum Services and an application form, contact the North Carolina State Museum of Natural Sciences.

North Carolina Department of Environment, Health, and Natural Resources
Director of School Programs
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

TEACHER TREKS—TROPICAL ECOLOGY ADVENTURE
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: Each summer since 1987, the North Carolina State Museum of Natural Sciences has sponsored a teacher training institute in the tropics to help North Carolina teachers learn about, experience, and appreciate tropical ecosystems.

Audience: Kindergarten-grade 12 teachers

Teacher Accreditation: Five hours certificate renewal credit or graduate school credit

Location: Belize, Central America and the North Carolina State Museum of Natural Sciences

When: Nine days in Belize during August, one day in June at the North Carolina State Museum of Natural Sciences for an orientation program, and two days in November for an evaluation.

Cost: Information is available in the free Teacher's Guide to Museum Services. Some teachers can obtain grants or local funds to cover part of their expenses.

Contact: For a copy of the Teacher's Guide to Museum Services and an application form, contact the North Carolina State Museum of Natural Sciences.

North Carolina Department of Environment, Health, and Natural Resources
Director of School Programs
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

USING THE OUTDOORS TO TEACH EXPERIENTIAL SCIENCE (UTOTES)
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: Using the Outdoors to Teach Experiential Science (UTOTES), sponsored by the North Carolina Science and Mathematics Alliance, North Carolina Department of Public Instruction, and the North Carolina State Museum of Natural Sciences, is designed for improving science education. Up to 10 elementary schools across the state are selected annually. Up to 24 teachers from each school receive one year of intensive training on using their school grounds to teach hands-on science and other subject areas. Emphasis is placed on enhancing the school grounds as a wildlife habitat through encouraging plantings of native wildflowers, shrubs, and trees, providing cover for birds and small animals, and returning selected mowed areas to meadows and natural sites.

Audience: Kindergarten-grade 5 teachers

Teacher Accreditation: Certificate renewal credits are available.

Location: At each individual school site

When: Information on the application deadline is available upon request.

Cost: Free, but may change depending on grant support

Contact: North Carolina Department of Environment, Health, and Natural Resources
Director of School Programs
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

N.C. CATCH (Caring for Aquatics Through Conservation Habits)
NORTH CAROLINA WILDLIFE RESOURCES COMMISSION

Type of Program: N.C. CATCH (Caring for Aquatics Through Conservation Habits) is an interdisciplinary, supplemental environmental education program that focuses on aquatic environments. Program components include fish studies, outdoor ethics, water safety, and fishing skills. Six and 10-hour workshops are facilitated by education consultants of the North Carolina Wildlife Resources Commission's Division of Conservation Education. Program materials are correlated to the North Carolina Competency-Based Curriculum. Student materials are available to workshop participants. Community partnerships are encouraged through field trips and fishing experiences.

Audience: Educators and youth leaders of middle school-age youth

Teacher Accreditation: One continuing education renewal credit is available upon completion of a 10-hour workshop.

Location: Statewide

When: Year-round

Cost: Free

Contact: North Carolina Wildlife Resources Commission
Division of Conservation Education
512 North Salisbury Street
Raleigh, NC 27604-1188
(919) 733-7123

N.C. WILD (Wildlife In Learning Design)
NORTH CAROLINA WILDLIFE RESOURCES COMMISSION

Type of Program: N.C. WILD is an interdisciplinary, supplemental environmental education program based on the national Project WILD program and focuses on wildlife and environmental concepts as a means of motivating learning and teaching within almost any subject area. Six and 10-hour workshops are facilitated by education consultants of the North Carolina Wildlife Resources Commission's Division of Conservation Education. Program materials are correlated to the North Carolina Competency-Based Curriculum; Cub, Boy, and Girl Scout requirements; and 4-H

requirements. Project WILD curriculum guides are available to workshop participants only. Advanced workshops covering more in-depth content are also offered to educators who have completed the basic workshop.

Audience: Educators and youth leaders of all age levels

Teacher Accreditation: One continuing education renewal credit is available upon completion of the 10-hour basic workshop and also for the completion of each 10-hour advanced workshop.

Location: Statewide

When: Year-round

Cost: Free

Contact: North Carolina Wildlife Resources Commission
Division of Conservation Education
512 North Salisbury Street
Raleigh, NC 27604-1188
(919) 733-7123

WILD EDUCATION SITES—N.C. WILD (Wildlife In Learning Design)
NORTH CAROLINA WILDLIFE RESOURCES COMMISSION

Type of Program: N.C. WILD Education Sites is an advanced N.C. WILD workshop consisting of 30 contact hours. This workshop provides schools, businesses, communities, and organizations with an opportunity to build partnerships and then work together to put environmental education into action by developing natural habitats which can be utilized as site-based extensions for N.C. WILD activities. This is the state's version of the national WILD Schools Sites Program.

Audience: Schools, businesses, communities, and organizations

Teacher Accreditation: Continuing education renewal credits are available

Location: Statewide

When: Year-round

Cost: Free

Contact: North Carolina Wildlife Resources Commission
Division of Conservation Education
512 North Salisbury Street
Raleigh, NC 27604-1188
(919) 733-7123

SUMMER ZOO ADVENTURES FOR TEACHERS
NORTH CAROLINA ZOOLOGICAL PARK

Type of Program: Summer Zoo Adventures for Teachers are workshops designed to help educators incorporate Zoo experiences into their environmental education programming. The series of two-day workshops promotes an understanding of nature, addresses issues related to conservation, and provides educational materials for classroom use. Cooperative efforts with the North Carolina Wildlife Resources Commission and the Division of Forest Resources enable the Zoo to help educators adapt Project WILD and Project Learning Tree activities to Zoo-centered lessons. Workshops include: *Project WILD, Project Learning Tree,* and *What to do at the Zoo.*

Audience: Kindergarten-grade 12 educators

Teacher Accreditation: One certificate renewal credit per workshop

Location: North Carolina Zoological Park

When: June and July. Schedules are available upon request.

Cost: $25/$20-NC Zoo Society members

Contact: North Carolina Department of Environment, Health, and Natural Resources
North Carolina Zoological Park
Education Division
4401 Zoo Parkway
Asheboro, NC 27203-9416
(910) 879-7700

ZOO CONCEPTS—NORTH CAROLINA ZOOLOGICAL PARK

Type of Program: Zoo Concepts, a joint program between the Zoo and the University of North Carolina-Greensboro, incorporates the Zoo into the educational system by using exotic animals and their habitats as resources for teaching science and mathematics. Participants are exposed to concepts of constructivist learning and multidisciplinary environmental education through Zoo-centered resources. As instructional specialists, teachers are expected to develop interdisciplinary materials and activities that can be implemented in elementary schools and to use the Zoo as an instructional resource. Thirty-two teachers attend four workshops during the course of a year residing at Camp Caraway in Randolph County. Participation is based on an application process involving 16 schools across the state with two teachers per school. This program is funded in part by the U.S. Department of Education and is sponsored by the North Carolina Mathematics and Science Education Network through its Summer Institute Program.

Audience: Kindergarten-grade 6 teachers

Teacher Accreditation: Three hours of graduate credit

Location: North Carolina Zoological Park

When: Four workshops are offered throughout the year. Contact the Zoo or University of North Carolina at Greensboro for specific dates.

Cost: $25 registration fee per school and commitment of support from the sponsoring school, including release time and computer access. Stipends and travel reimbursements are offered by the project.

Contact: For more information about the program or to receive an application, contact the North Carolina Zoological Park or the University of North Carolina at Greensboro.

North Carolina Department of Environment, Health, and Natural Resources
Curator of Education
North Carolina Zoological Park
Education Division
4401 Zoo Parkway
Asheboro, NC 27203-9416
(910) 879-7710

Coordinator, Zoo Concepts
341 Curry Building, University of North Carolina-Greensboro
1000 Spring Garden Street
Greensboro, NC 27412-5001
(910) 334-4024

ENVIRONMENTAL EDUCATIONAL SUPPORT MATERIALS

TREE TRUNKS—DIVISION OF FOREST RESOURCES

Type of Program: Tree Trunks consist of forestry-related, activity-oriented, resource boxes available for a two-week loan to educators for use in their classrooms. Educators who have attended a Project Learning Tree Workshop will receive priority. Each box contains $400 worth of materials including videos and supplies needed to do activities listed in the manual, Project Learning Tree.

Audience: Kindergarten-grade 12 educators trained in Project Learning Tree

Teacher Accreditation: N/A

Location: The 46 resource boxes can be borrowed from any of the 13 District Forestry Offices throughout North Carolina or the six educational state forests. The appendix includes a listing of the District Forestry Offices in North Carolina.

When: Available spring 1994

Cost: Free

Contact:

Clemmons Educational State Forest
2411 Garner Road
Clayton, NC 27520
(919) 553-5651

Holmes Educational State Forest
Route 4 Box 308
Hendersonville, NC 28739
(704) 692-0100

Jordan Lake Educational State Forest
2832 Big Woods Road
Chapel Hill, NC 27514
(919) 542-1154

Rendezvous Mountain Educational Forest
P.O. Box 42
Purlear, NC 28665
(910) 667-5072

Turnbull Creek Educational State Forest
Route 2 Box 942- A
Elizabethtown, NC 28337
(910) 588-4161

Tuttle Educational State Forest
Route 6 Box 417
Lenoir, NC 28645
(704) 757-5608

ROCK KITS
DIVISION OF LAND RESOURCES

Type of Program: The North Carolina Geological Survey within the Division of Land Resources has assembled mineral and rock kits for distribution to every elementary and middle school in North Carolina. Funding is provided by the North Carolina Mining Commission Education Committee in cooperation with the Research Triangle Science and Mathematics Partnership. Each kit contains 19 labeled rocks and minerals, a streak plate, a geologic map of North Carolina, and an instructional booklet. The booklet contains information about the rocks and minerals and classroom exercises are designed to introduce rocks and minerals using a variety of hands-on activities. The kit includes samples of important economic minerals from our state, examples of the three rock types, and rocks from different regions of North Carolina.

Audience: Grade 1- 8 educators

Teacher Accreditation: N/A

Location: Statewide distribution to every elementary and middle school in North Carolina

When: All 1400 Kits will be distributed by the end of 1994

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
Division of Land Resources—North Carolina Geological Survey
Rock Kit Coordinator
P.O. Box 27687
Raleigh, NC 27611-7687
(919) 733-4574

RESOURCE BOXES
NORTH CAROLINA STATE MUSEUM OF NATURAL SCIENCES

Type of Program: The North Carolina State Museum of Natural Sciences lends resource boxes for two-week periods to Wake County teachers. Topics include: *Reptiles and Amphibians, Rocks and Minerals, Fossil Fun,* and *Stream Watch,* a water quality test box. New boxes continue to be developed. These boxes contain activities and all resources necessary to implement the activities. Before borrowing the resource boxes, the interested teacher must attend an orientation session at the Museum.

Audience: Wake County teachers who have attended an orientation session on the Resource Boxes. Contact the Museum for more information.

Teacher Accreditation: N/A

Location: Resource Boxes are housed at the North Carolina State Museum of Natural Sciences.

When: Resource boxes may be picked up during weekdays, 9:00 a.m. - 5:00 p.m. after reservations are made with the Wake County Natural Sciences Specialist at the North Carolina State Museum of Natural Sciences.

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
Wake County Natural Sciences Specialist
North Carolina State Museum of Natural Sciences
P.O. Box 29555
Raleigh, NC 27626-9555
(919) 733-7450

N.C. WILD (Wildlife In Learning Design) NOTEBOOK
NORTH CAROLINA WILDLIFE RESOURCES COMMISSION

Type of Program: North Carolina WILD Notebook is an environmental education primer and a part of the N.C. WILD program. It introduces a concept through the use of a story, then provides activities and extensions which can be used to teach the concept and provide the student with opportunities to use the newly-gained knowledge. This publication has received numerous national awards.

Audience: Educators

Teacher Accreditation: N/A

Location: Statewide

When: Eight times during the school year

Cost: Free

Contact: N.C. WILD Notebook
North Carolina Wildlife Resources Commission
Division of Conservation Education
512 North Salisbury Street
Raleigh, NC 27604
(919) 733-7133

NORTH CAROLINA WILD STORE—NORTH CAROLINA WILDLIFE RESOURCES COMMISSION

Type of Program: A selection of various environmental education publications, videos, and other products produced by the North Carolina Wildlife Resources Commission's Division of Conservation Education are available through a catalog, known as the N.C. Wild Store.

Audience: General public

Teacher Accreditation: N/A

Location: International

When: Items are available throughout the year with an updated catalog produced every six months.

Cost: Each item is priced separately and/or in packages.

Contact: Educational Products-WILD
North Carolina Wildlife Resources Commission
Division of Conservation Education
512 North Salisbury Street
Raleigh, NC 27604-1188
(919) 733-7133 (Publishing)
(919) 622-4377 (Sales)

WILDLIFE IN NORTH CAROLINA MAGAZINE
NORTH CAROLINA WILDLIFE RESOURCES COMMISSION

Type of Program: Wildlife in North Carolina is the official environmental education publication of the North Carolina Wildlife Resources Commission. Its purpose is to promote the conservation and awareness of the state's natural resources and the interrelationships of the state's citizens with these resources. Wildlife in North Carolina is recognized as one of the leading natural resource publications in the United States and has received numerous awards.

Audience: General public

Teacher Accreditation: N/A

Location: International

When: Monthly

Cost: Subscription rates are $7.50 for one year, $20 for three years and $100 for a lifetime subscription. A subscription is provided by the Commission to each public school within the state.

Contact: Wildlife in North Carolina
North Carolina Wildlife Resources Commission
Division of Conservation Education
512 North Salisbury Street
Raleigh, NC 27604-1188
(919) 733-7133 (Publishing)
(919) 622-4377 (Subscriptions)
(800) 662-7726 (Cassette tapes for blind and physically handicapped persons)

ZOOFARI BAGS AND DISCOVERY BOXES
NORTH CAROLINA ZOOLOGICAL PARK

Type of Program: Zoofari Bags and Discovery Boxes are resources developed by the education staff of the North Carolina Zoological Park. Zoofari Bags are designed for use at Zoo habitats during field trips. Bags are available to teachers who have participated in "Zoo Concepts" (see page 49) or the "Summer Zoo Adventures for Teachers" session entitled *What to do at the Zoo* (see page 49). Discovery Boxes provide exciting hands-on educational activities and are available for use during scheduled Discovery Room Sessions (see page 34). Discovery Boxes are available for off-site loan to "Zoo Concepts" teachers.

Audience: Kindergarten-grade 6 educators trained in "Zoo Concepts" or "Summer Zoo Adventures for Teachers"; Discovery Boxes are available for all scheduled Discovery Room classes.

Teacher Accreditation: N/A

Location: Discovery Room, W. David Stedman Education Center, Asheboro

When: Requests for Zoofari Bags or off-site loans of Discovery Boxes may be made weekdays 8:00 a.m.-4:00 p.m. by calling (910) 879-7700.

Cost: Free

Contact: North Carolina Department of Environment, Health, and Natural Resources
North Carolina Zoological Park—Education Division
4401 Zoo Parkway
Asheboro, NC 27203-9416
(910) 879-7700

APPENDIX

AREAS OF NORTH CAROLINA ASSOCIATION OF SOIL AND WATER CONSERVATION DISTRICTS

AREAS 1 AND 8
P.O. Box 950
Mooresville, NC 28115

AREAS 2 and 3
8025 North Point Boulevard
Winston-Salem, NC 27107

AREAS 4 and 7
3800 Barrett Drive
Raleigh, NC 27609

AREA 5
1424 Carolina Avenue
Washington, NC 27889

AREA 6
P.O. Box 769
Morehead City, NC 28557

NORTH CAROLINA SOIL AND WATER CONSERVATION DISTRICTS

ALAMANCE, P.O. Box 28, Graham, NC 27253 (910) 226-0477

ALEXANDER, 255 Liledoun Road, Box 10, Taylorsville, NC 28681 (704) 632-2708

ALLEGHANY, P.O. Box 127, Sparta, NC 28675 (910) 372-4645

ANSON (BROWN CREEK SWCD), 1706 Morven Road, Wadesboro, NC 28170 (704) 694-2710

ASHE (NEW RIVER SWCD), Old Jefferson Elem. School, P.O. Box 88, Jefferson, NC 28640 (910) 246-5461

AVERY, P.O. Box 190, Newland, NC 28657 (704) 733-2291

BEAUFORT, 102 E. 2nd Street, Room 311, Washington, NC 27889 (919) 946-4989

BERTIE, P.O. Box 566, Windsor, NC 27983-0566 (919) 794-5305

BLADEN, 122 Agriculture Services Center, Elizabethtown, NC 28337 (919) 862-6936

BRUNSWICK, P.O. Box 26, Bolivia, NC 28422 (910) 253-4458

BUNCOMBE, 31 College Place, Building B, Room 210, Asheville, NC 28801 (704) 251-4906

BURKE, 700 E. Parker Road, Morganton, NC 28655 (704) 433-4044

CABARRUS, 745 Cabarrus Avenue W., Concord, NC 28027 (704) 788-2105

CALDWELL, 120 Hospitalane N.E., Suite 2, Lenoir, NC 28645 (704) 758-1111

CAMDEN (ALBEMARLE SWCD), P.O. Box 37, Camden, NC 27921 (919) 338-6616

CARTERET, P.O. Box 125, Beaufort, NC 28516 (919) 728-4078

CASWELL, P.O. Box 96, Yanceyville, NC 27379 (910) 694-4581

CATAWBA, P.O. Box 389, Newton, NC 28658 (704) 465-8950

CHATHAM, P.O. Box 308, Pittsboro, NC 27312 (919) 542-8240

CHEROKEE, 115 Peachtree Street, Murphy, NC 28906 (704) 837-6928

CHOWAN (ALBEMARLE SWCD), 414 West Queen Street, Edenton, NC 27932 (919) 482-4127

CLAY, P.O. Box 57, Hayesville, NC 28904 (704) 389-9764

CLEVELAND, 124-1 South Post Road, Shelby, NC 28150 (704) 482-1906

COLUMBUS, 112 West Smith Street, Whiteville, NC 28472 (910) 642-2348

CRAVEN, 302 Industrial Drive, New Bern, NC 28562 (919) 637-2547

CUMBERLAND, 121 E. Mountain Drive, Fayetteville, NC 28306 (910) 484-8479

CURRITUCK (ALBEMARLE SWCD), P.O. Box 69, Currituck, NC 27929 (919) 232-3360

DARE, P.O. Box 1047, Manteo, NC 27954 (919) 441-1345

DAVIDSON, 301 E. Center Street, Lexington, NC 27292 (704) 242-2075

DAVIE, P.O. Box 413, Mocksville, NC 27028 (704) 634-5011

DUPLIN, P.O. Box 277, Kenansville, NC 28349 (910) 296-2120

DURHAM, 721 Foster Street, Durham, NC 27701 (919) 560-0558

EDGECOMBE, P.O. Box 10, Tarboro, NC 27886 (919) 641-7900

FORSYTH, 1450 Fairchild Drive, Winston-Salem, NC 27105 (910) 631-5181

FRANKLIN, 101 S. Bickett Blvd., Louisburg, NC 27549 (919) 496-3137

GASTON, 1303 Cherryville Hwy., Dallas, NC 28034 (704) 922-4181

GATES, P.O. Box 61, Gatesville, NC 27938 (919) 357-1881

GRAHAM, P.O. Box 286, Robbinsville, NC 28771 (704) 479-8562

GRANVILLE, P.O. Box 10, Oxford, NC 27565 (919) 693-4603

GREENE, 3 Professional Drive, Suite B, Snow Hill, NC 28580 (919) 747-3705

GUILFORD, 3309 Burlington Road, Greensboro, NC 27405 (910) 333-5400

HALIFAX (FISHING CREEK SWCD), P.O. Box 8, Halifax, NC 27839 (919) 583-3481

HARNETT, P.O. Box 267, Lillington, NC 27546 (910) 893-7584

HAYWOOD, P.O. Box 425, Waynesville, NC 28786 (704) 452-2741

HENDERSON, 140 Fouth Avenue W., Hendersonville, NC 28792 (704) 693-1629

HERTFORD, P.O. Box 265, Winton, NC 27986 (919) 358-7846

HOKE, 122 W. Elwood Avenue, Raeford, NC 28376 (910) 875-8685

HYDE (PAMLICO SWCD), P.O. Box 264, Swan Quarter, NC 27885 (919) 926-4361

IREDELL, 201 Water Street, Statesville, NC 28677 (704) 873-6761

JACKSON, 102 Scotts Creek Road, Room 134, Sylva, NC 28779 (704) 586-6344

JOHNSTON, 806 North Street, Smithfield, NC 27577 (919) 989-5381

JONES, P.O. Box 40, Trenton, NC 28585 (919) 448-2731

LEE, 225 S. Steele Street, Sanford, NC 27330 (919) 776-2633

LENOIR, 2411 Pink Hill Hwy., Suite B, Kinston, NC 28501 (919) 523-7010

LINCOLN, 115 W. Main Street, Lincolnton, NC 28092 (704) 736-8501

MACON, 35 Sloan Road, Franklin, NC 28734 (704) 369-5347

MADISON, P.O. Box 367, Marshall, NC 28753 (704) 649-9099

MARTIN, P.O. Box 483, Williamston, NC 27892 (919) 792-4350

MCDOWELL, 15 North Garden Street, Marion, NC 28752 (704) 652-7121

MECKLENBURG, 700 N. Tryon Street, Charlotte, NC 28202 (704) 336-2455

MITCHELL, P.O. Box 5, Bakersville, NC 28705 (704) 688-4883

MONTGOMERY, 227 N. Main Street, Troy, NC 27371 (910) 572-2700

MOORE, P.O. Box 908, Carthage, NC 28327, (910) 947-5183

NASH, 1006 Eastern Avenue, Room 107, Nashville, NC 27856 (919) 459-4115

NEW HANOVER, 320 Chestnut Street, Room 320, Wilmington, NC 28401 (910) 762-6072

NORTHAMPTON, P.O. Box 218, Jackson, NC 27845 (919) 534-2591

ONSLOW, 604 College Street, Jacksonville, NC 28540 (910) 455-4472

ORANGE, P.O. Box 8181, Hillsborough, NC 27278 (919) 732-8181

PAMLICO (BAY RIVER SWCD), P.O. Box 305, Bayboro, NC 28515 (919) 745-4303

PASQUOTANK (ALBEMARLE SWCD), 1023-5 Hwy. US 17-S, Elizabeth City, NC 27909 (919) 338-6353

PENDER, P.O. Box 248, Burgaw, NC 28425, (910) 259-4305

PERQUIMANS (ALBEMARLE SWCD), 608 Edenton Road Street, Hertford, NC 27944 (919) 426-5545

PERSON, 304 S. Morgan St., Room 126, Roxboro, NC 27573 (910) 597-2973

PITT, 403 Old Creek Road, Suite 4, Greenville, NC 27834 (919) 752-2720

POLK, P.O. Box 236, Columbus, NC 28722 (704) 894-8550

RANDOLPH, 241 Sunset Avenue, Asheboro, NC 27203 (910) 629-4539

RICHMOND, P.O. Box 727, Rockingham, NC 28379 (910) 997-8244

ROBESON, 440 Caton Road, Lumberton, NC 28358 (910) 739-5478

ROCKINGHAM, 371 NC 65, Reidsville, NC 27320 (910) 342-8225

ROWAN, 2727C Old Concord Road, Salisbury, NC 28146 (704) 637-0783

RUTHERFORD, 121 S. Main Street, Rutherfordton, NC 28139 (704) 287-4817

SAMPSON, 303-D East Rowan Raod, Clinton, NC 28328 (910) 592-7963

SCOTLAND, 231 East Cronly Street, Laurinburg, NC 28352 (910) 277-2433

STANLY, 26032-C Newt Road, Albemarle, NC 28001 (704) 982-6811

STOKES, P.O. Box 98, Danbury, NC 27016 (910) 593-2847

SURRY, P.O. Box 218, Dobson, NC 27017 (910) 386-8109

SWAIN, P.O. Box 731, Bryson City, NC 28713 (704) 488-8803

TRANSYLVANIA, Gaston & Morgan Streets, Brevard, NC 28712 (704) 884-3230

TYRRELL (PAMLICO SWCD), P.O. Box 162, Columbia, NC 27925 (919) 796-3891

UNION, 604 Lancaster Avenue, Monroe, NC 28112 (704) 283-2163

VANCE, 305 Young Street, Henderson, NC 27536 (919) 438-5727

WAKE, 4001D Carya Drive, Raleigh, NC 27610 (919) 250-1050

WARREN, 133 1/2 S. Main Street, Warrenton, NC 27589 (919) 257-3836

WASHINGTON (PAMLICO SWCD), 116 Adams Street, Plymouth, NC 27962 (919) 793-4561

WATAUGA, 500 W. King Street, Boone, NC 28607 (704) 264-3943

WAYNE, 208 W. Chestnut Street, Goldsboro, NC 27530 (919) 731-1532

WILKES, P.O. Box 194, Wilkesboro, NC 28697 (910) 667-5700

WILSON, Route 5, Box 92, Wilson, NC 27893 (919) 237-2711

YADKIN, P.O. Box 8, Yadkinville, NC 27055 (910) 679-8052

YANCEY, 22 E. Bypass, Suite 1, Burnsville, NC 28714 (704) 682-3410

NORTH CAROLINA FOREST SERVICE DISTRICTS

Forest District 1
220 Sardis Road
Asheville, NC 28806
(704) 667-5211

Forest District 2
1543 Wilkesboro Boulevard, NE
Lenoir, NC 28645-8215
(704) 757-5611

Forest District 3
Route 4, Box 387
Rockingham, NC 28379
(910) 997-9220

Forest District 4
3850 Hwy. 17 S
New Bern, NC 28562
(919) 514-4764

Forest District 5
249 Airport Road
Rocky Mount, NC 27804
(919) 442-1626

Forest District 6
Forest Resources
221 Airport Road
Fayetteville, NC 28306
(910) 484-0174

Forest District 7
861 Berea Church Road
Elizabeth City, NC 27909
(919) 331-4781

Forest District 8
Rt. 6, Box 404A
Whiteville, NC 28472
(910) 642-5093

Forest District 9
Rt. 3, Box 182
Sylva, NC 28779
(704) 586-4007

Forest District 10
Route 16, Box 272
Lexington, NC 27292
(704) 956-2111

Forest District 11
P.O. Box 907
Hillsborough, NC 27278
(919) 732-8105

Forest District 12
Route 4, Box 72-A
Mount Holly, NC 28120
(704) 827-7576

Forest District 13
P.O. Box 127
Fairfield, NC 27826
(919) 926-3041

NORTH CAROLINA LAND QUALITY REGIONS

ASHEVILLE
Interchange Building
59 Woodfin Place
Asheville, NC 28801
(704) 251-6208

FAYETTEVILLE
Wachovia Building
Suite 714
Fayetteville, NC 28301
(910) 486-0707

MOORESVILLE
919 North Main Street
Mooresville, NC 28115
(704) 663-6040

RALEIGH
3800 Barrett Drive
P.O. Box 27687
Raleigh, NC 27611
(919) 571-4700

WASHINGTON
1424 Carolina Avenue
Washington, NC 27889
(919) 946-6481

WILMINGTON
127 Cardinal Drive, Ext.
Wilmington, NC 28405-3845
(910) 395-3900

WINSTON-SALEM
8025 North Point Boulevard
Suite 100
Winston-Salem, NC 27106
(910) 896-7007

ATTORNEY GENERAL'S
WESTERN OFFICE
11 North Market Street, Suite 203
Asheville, NC 28801
(704) 251-6083

NORTH CAROLINA STATE PARKS AND RECREATION AREAS*
*** With environmental education services**

Carolina Beach State Park
P.O. Box 475
Carolina Beach, NC 28428
(910) 458-8206

Cliffs of the Neuse State Park
345-A Park Entrance Road
Seven Springs, NC 28578
(919) 778-6234

Crowders Mountain State Park
Route 1, Box 159
Kings Mountain, NC 28086
(704) 853-5375

Duke Power State Park
Route 2, Box 224M
Troutman, NC 28166
(704) 528-6350

Eno River State Park
6101 Cole Mill Road
Durham, NC 27705
(919) 383-1686

Falls Lake State Recreation Area
13304 Creedmoor Road
Wake Forest, NC 27587
(919) 676-1027

Fort Fisher State Recreation Area
P.O. Box 475
Carolina Beach, NC 28428
(910) 458-8206

Fort Macon State Park
P.O. Box 127
Atlantic Beach, NC 28512
(919) 726-3775

Goose Creek State Park
Route 2, Box 372
Washington, NC 27889
(919) 923-2191

Hammocks Beach State Park
1572 Hammocks Beach Road
Swansboro, NC 28584
(910) 326-4881

Hanging Rock State Park
P.O. Box 186
Danbury, NC 27016
(910) 593-8480

Jockey's Ridge State Park
P.O. Box 592
Nags Head, NC 27959
(919) 441-7132

Jones Lake State Park
Route 2, Box 945
Elizabethtown, NC 28337
(910) 588-4550

Jordan Lake State Recreation Area
Route 2, Box 159
Apex, NC 27502
(919) 362-0586

Kerr Lake State Recreation Area
Route 3, Box 800
Henderson, NC 27536
(919) 438-7791

Lake James State Park
P.O. Box 340
Nebo, NC 28761
(704) 652-5047

Lake Waccamaw State Park
c/o Singletary Lake State Park
Route 1, Box 63
Kelly, NC 28448
(910) 669-2928

Lumber River State Park
c/o Singletary Lake State Park
P.O. Box 10
Orrum, NC 28369
(910) 669-2928

Medoc Mountain State Park
P.O. Box 400
Hollister, NC 27844
(919) 445-2280

Merchants Millpond State Park
Route 1, Box 141A
Gatesville, NC 27938
(919) 357-1191

Morrow Mountain State Park
49104 Morrow Mountain Road
Albemarle, NC 28001
(704) 982-4402

Mount Jefferson State Park
P.O. Box 48
Jefferson, NC 28640
(910) 246-9653

Mount Mitchell State Park
Route 5, Box 700
Burnsville, NC 28714
(704) 675-4611

New River State Park
P.O. Box 48
Jefferson, NC 28640
(910) 982-2587

Pettigrew State Park
Route 1, Box 336
Creswell, NC 27928
(919) 797-4475

Pilot Mountain State Park
Route 3, Box 21
Pinnacle, NC 27043
(910) 325-2355

Raven Rock State Park
Route 3, Box 1005
Lillington, NC 27546
(910) 893-4888

Singletary Lake State Park
Route 1, Box 63
Kelly, NC 28448
(910) 669-2928

South Mountains State Park
Route 1, Box 206-C
Connelly Springs, NC 28612
(704) 433-4772

Stone Mountain State Park
Route 1, Box 17
Roaring Gap, NC 28668
(910) 957-8185

Waynesborough State Park
801 Hwy. 117S
Goldsboro, NC 27530
(919) 580-9391

Weymouth Woods Sandhills Nature Preserve
400 North Fort Bragg Road
Southern Pines, NC 28387
(910) 692-2167

William B. Umstead State Park
Crabtree Section
Route 8, Box 130
Raleigh, NC 27612
(919) 787-3033

William B. Umstead State Park
Reedy Creek Section
1800 North Harrison Avenue
Cary, NC 27511
(919) 677-0062

PRIVATE COASTAL ENVIRONMENTAL EDUCATION FACILITIES

The following list of private environmental education facilities was provided to EHNR by the Coastal Federation for this coastal edition of the Teacher's Guide, and is not intended to be inclusive. It is hoped that future editions of the Teacher's Guide will include the research necessary to allow a complete listing of all such resources for teachers and educators throughout the state.

Hadnot Creek Farm 3223-4 Highway 58, Swansboro, NC 28584

The North Carolina Coastal Federation, located at Hadnot Creek Farm, provides opportunities to learn about stewardship of coastal resources. This registered State Natural Heritage Area is adjacent to the White Oak River estuary. The Farm offers a variety of natural ecosystems to explore including freshwater wetlands, salt marshes, tidal creeks, deciduous forests and secondary successional growth forests. Regularly scheduled tours, specially-arranged field trips, and self-guided nature and Farm trails are available. Please contact the Federation for a detailed trail brochure and information packet, (919) 393-8185.

Nags Head Woods Preserve 701 West Ocean Acres Drive, Kill Devil Hills, NC 27948

The 1,400-acre maritime forest known as Nags Head Woods contains a rich variety of plant and animal life, including a maritime deciduous forest, maritime swamp forest, and diverse populations of reptiles and amphibians. In addition to opportunities for hiking and exploring the nature trails, the Preserve offers guided tours, teacher training workshops, children's nature camps, internships, and numerous education programs. For more information, please call (919) 441-2525.

North Carolina Maritime Museum 315 Front Street, Beaufort, NC 28516

The North Carolina Maritime Museum located in Beaufort offers a variety of educational services to school groups, adult groups, special needs groups, and the general public. The Museum's mission is to preserve and interpret the area's rich maritime heritage through educational exhibits, tours, programs, and field trips. The Museum also publishes a calendar of field trips and special programs four times a year and sponsors the Cape Lookout Studies Program. Please contact the Museum for a detailed information packet, (919) 728-7317.

Trinity Center P.O. Drawer 380, Salter Path, NC 28575

Trinity Conference Center on Bogue Banks sponsors *Sound to Sea*, the only residential environmental education program on the Outer Banks. *Sound to Sea* uses hands-on activities and the 60 acres of salt mash, maritime forest, and sand dunes to introduce students and teachers to a variety of habitats typical of a barrier island. *Sound to Sea* also offers teacher workshops emphasizing topics from marine science to coastal cultures, including coastal Native Americans. For more information, call (919) 247-5600.

Sea Gull/Seafarer Outdoor Center Route 65, Box 1, Arapahoe, NC 28510

The Outdoor Center is located in Pamlico County on two sites at Camp Sea Gull and Camp Seafarer along the shores of the lower Neuse River near Pamlico Sound. The Outdoor Center offers an integrated program, *Discover the Neuse*, for students and teachers. Hands-on activities challenge all participants to an increased awareness of social, environmental, historical, and scientific concerns. There are numerous cabins, meeting rooms, dining halls, and a nature center which can accommodate groups of all sizes. For more information, call (919) 249-1111.

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